SHARP SERVICE MANUAL

SG-180H
SG-180HB

ATSM881106MCT

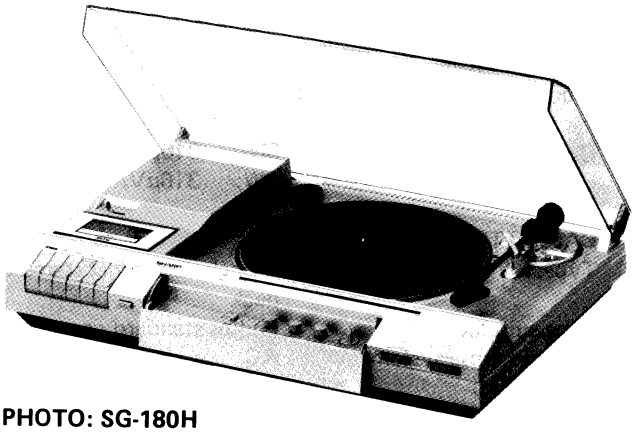

PHOTO: SG-180H

SG-180H
SG-180HB

In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION OSAKA, JAPAN

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

GENERAL DESCRIPTION

Power source:	AC 110/220/240V, 50/60 Hz
Power consumption:	110W
Semi-conductors:	5 ICs (Integrated circuits) 1 FET 12 Transistors 20 Diodes 3 LEDs
Dimensions:	Width; 590 mm Height; 117 mm Depth; 422 mm
Weight:	7.2 kg

AUDIO SECTION

Music power output:	2 x 25W/4 ohms at 5% T.H.D.
Continuous power output:	2 x 15W/4 ohms at 5% T.H.D. both channels driven
Frequency response:	60 Hz to 25 kHz (−3 dB)
Tone control:	Bass; ±10 dB at 100 Hz Treble; ±10 dB at 10 kHz
Input sensitivity and input impedance:	Mic; 1 mV, 10 K ohms
Output impedance:	Speakers; 4 ohms Headphones; 8 ohms
Channel separation:	36 dB (1 kHz)

FM SECTION

Frequency coverage:	87.6 to 108 MHz
Sensitivity:	2.5μV (at 26 dB S/N, 40 kHz deviation)
Harmonic distortion:	0.5% (mono)
Stereo separation:	30 dB (1 kHz)

AM SECTION

Frequency coverage:	MW; 520 to 1620 kHz LW; 148.5 to 285 kHz
Usable sensitivity:	MW; 316μV/m LW; 316μV/m

CASSETTE DECK SECTION

Type:	4-track, 2-channel stereo cassette deck
Tape suitable:	Philips standard compact cassette
Bias and erase system:	AC
Tape speed:	4.8 cm/sec.
Wow and flutter:	0.25% (DIN)
Frequency response:	Metal tape; 50 Hz to 12500 Hz Normal tape; 50 Hz to 11500 Hz

RECORD PLAYER SECTION

Type:	Belt drive single player
Speeds:	33-1/3 and 45 r.p.m.
Turntable size:	28 cm
Tonearm:	Static-balanced tube tonearm
Cartridge:	Ceramic with sapphire stylus

Specifications of this model are subject to change without prior notice.

VOLTAGE SELECTION

The unit is designed to operate from 110V, 220V or 240V AC mains.

Check the AC voltage level setting at rear of unit before plugging in supply cord. If necessary, adjust selector to correspond to the AC supply voltage of your area.

If the AC supply cord is already plugged into an AC supply outlet, unplug it before checking the voltage.

Mains voltage selector adjustment:

The voltage selector is on the rear of the unit. Turn the selector with a screwdriver in either direction until the correct voltage can be read in the window next to the adjustment screw.

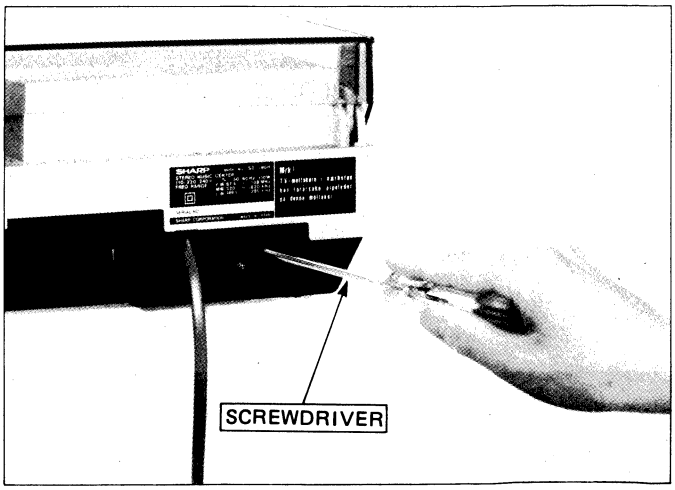


Figure 2-1

LAYOUT OF PARTS

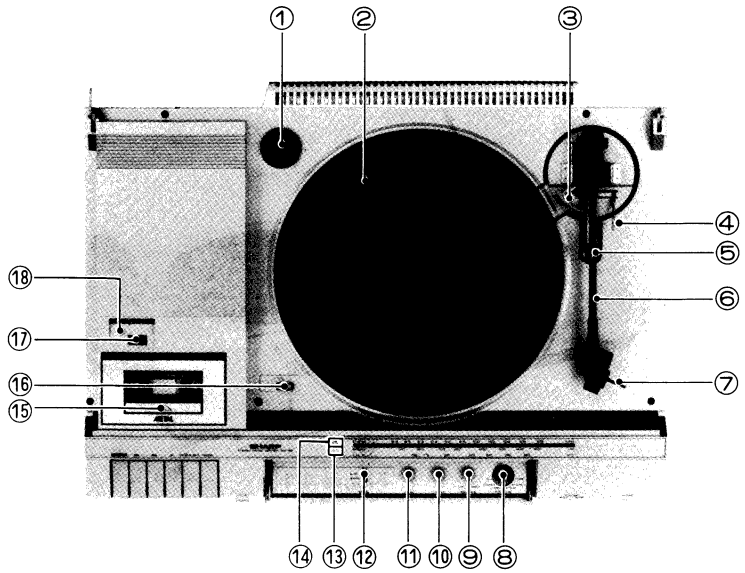


Figure 3-1

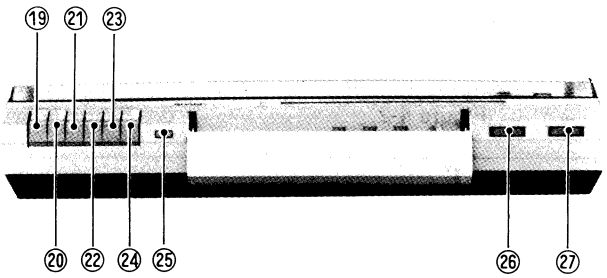


Figure 3-2

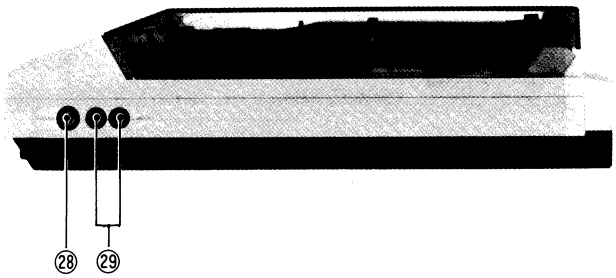


Figure 3-3

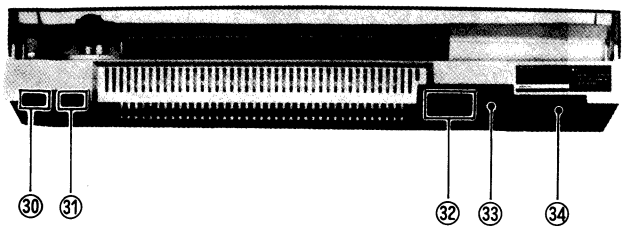


Figure 3-4

① Spindle Adaptor for 45 r.p.m. Records
② Turntable Platter
③ Tonearm Lifter
④ Cuing/Pause Control Lever
⑤ Tonearm Rest
⑥ Tonearm
⑦ Headshell Grip
⑧ Function Selector
⑨ Balance Control
⑩ Treble Control
⑪ Bass Control
⑫ Metal Tape Switch
⑬ Record Indicator
⑭ FM Stereo Indicator
⑮ Cassette Compartment
⑯ Turntable Speed Selector
⑰ Digital Tape Counter
⑱ Tape counter Reset Button
⑲ Record Key
⑳ Fast Forward Key
㉑ Rewind Key
㉒ Play Key
㉓ Stop/Eject Key
㉔ Pause Key
㉕ Power Switch
㉖ Volume Control
㉗ Tuning Control
㉘ Headphones Jack
㉙ Microphone Jacks
㉚ FM External Antenna Socket
㉛ LW/MW External Antenna Socket
㉜ Speaker Output Socket
㉝ Beat Canceller Switch
㉞ Mains Voltage Selector

DISASSEMBLY

Cautions on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it to keep its safety and excellent performance:

1. Be sure to remove the AC supply plug from the wall outlet before starting to disassemble the unit.
2. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After repairing the unit, be sure to rearrange the leads at where they have been before disassembling.
3. Take sufficient care on static electricity of integrated circuits and other circuits when repairing.

DUST COVER REMOVAL

(Refer to Figure 4-1)

① Lift the dust cover up by holding its right and left sides with your hands to direction of arrow mark.

TOP CABINET REMOVAL

(Refer to Figure 4-1~4-4)

② Pull out a turntable mat from the center spindle.
③ Detach the turntable belt from the motor pulley.
④ Pull out a turntable platter from the center spindle.
⑤ Open a cassette compartment door and a controls door, and raise the cuing/pause control lever manually.
⑥ Shift the tonearm fully towards the center spindle.
⑦ Take all the knobs out of a Top cabinet: treble control, balance control, bass control and function selector.
⑧ Remove the thirteen screws from the top cabinet and remove the two screws from a bottom cabinet.
Now it is allowed to separate the top cabinet from the bottom cabinet. Lift the top cabinet up carefully not to allow it to hit the tuning control knob, volume control, tonearm and power switch.

PLAYER UNIT REMOVAL

(Refer to Figure 4-5)

⑨ This removal is allowed only after TOP CABINET REMOVAL.
⑩ Disconnect socket CNS202 from a main PWB.
⑪ Turn the top cabinet over, remove a player unit by holding it up slowly.

MECHANISM UNIT REMOVAL

(Refer to Figure 5-1)

⑫ This removal is allowed only after TOP CABINET REMOVAL.
⑬ Disconnect a socket CNS201 from the main PWB and remove a tape counter belt from a tape counter.
⑭ Remove the four screws from the bottom cabinet.

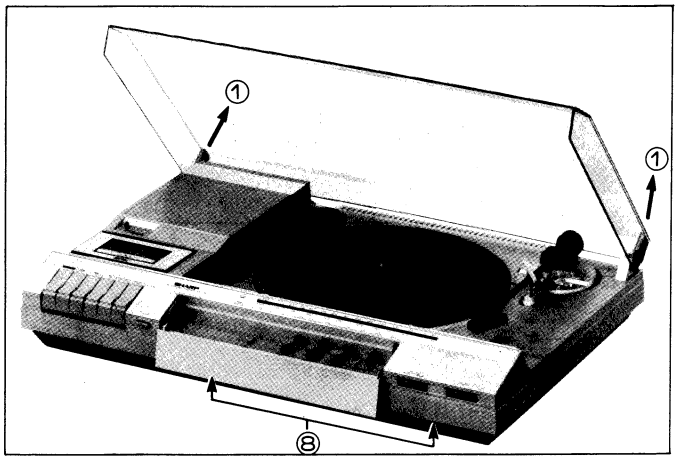


Figure 4-1

Figure 4-2

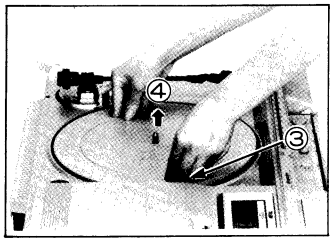


Figure 4-3

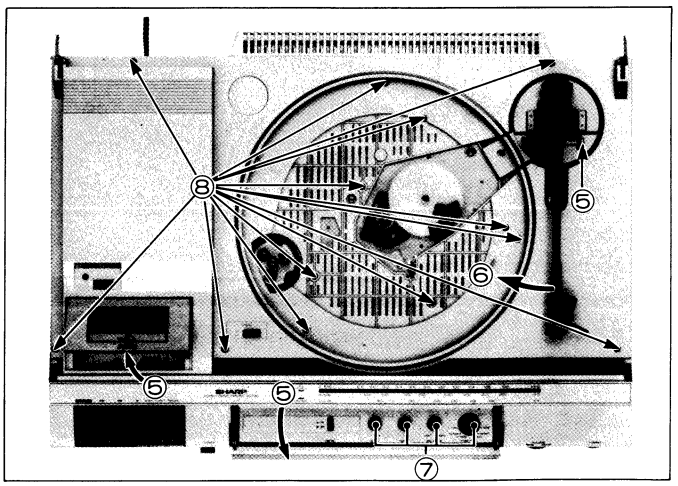


Figure 4-4

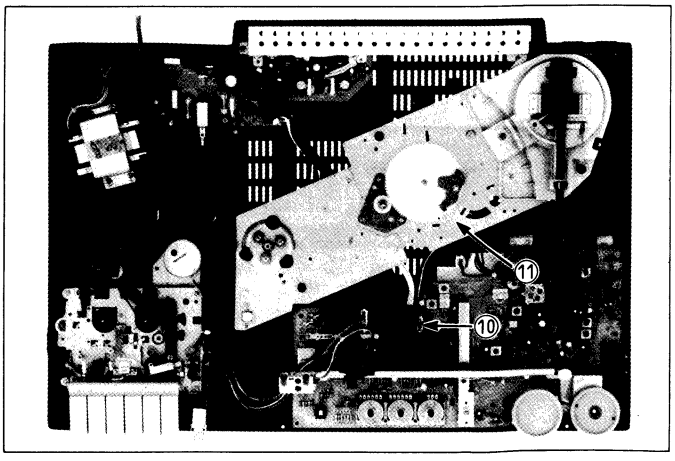


Figure 4-5

MAIN PWB AND POWER PWB REMOVAL

(Refer to Figure 5-1 and 5-2)

⑮ This removal is allowed only after TOP CABINET REMOVAL, PLAYER UNIT REMOVAL and MECHANISM UNIT REMOVAL.

⑯ Remove one screw from a record lever spring holder. After that take off the record lever spring holder.

⑰ Lift up a power switch lever and remove the two screws from the bottom cabinet.

⑱ Pull out the volume control knob from the bottom cabinet, after that remove one screw from a volume bracket.

⑲ Take off the volume bracket from the bottom cabinet.

⑳ Remove a record lever spring from a record/playback switch and remove the four screws from the bottom cabinet.

㉑ Disconnect the headphones socket, microphone socket speaker output sockets and FM/LW/MW external antenna socket from the bottom cabinet.

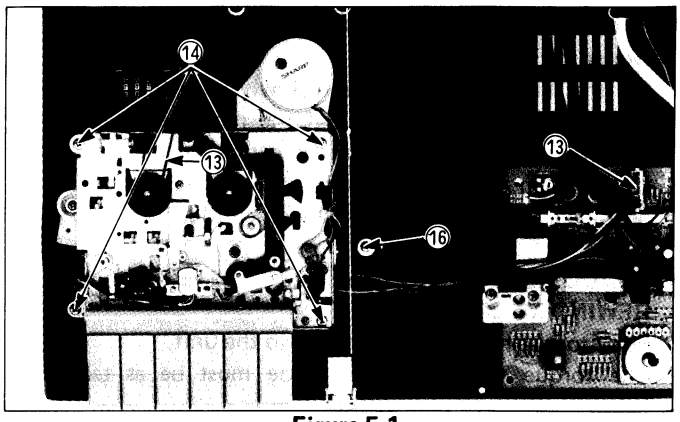


Figure 5-1

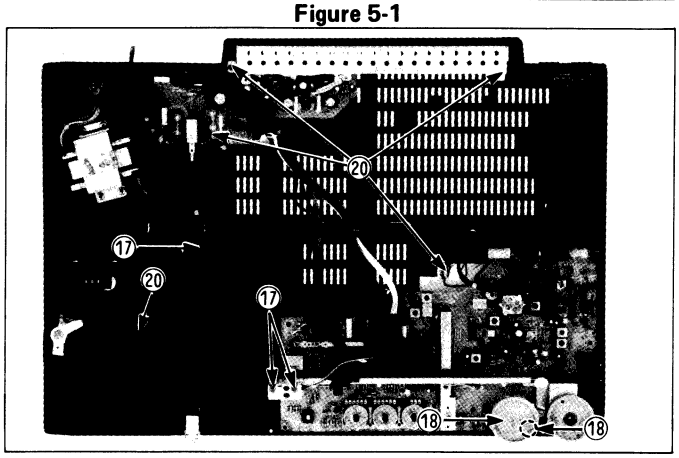


Figure 5-2

MECHANICAL ADJUSTMENT

■ FLYWHEEL THRUST CLEARANCE ADJUSTMENT

(Refer to Figure 5-3)

Slowly tighten the screw for flywheel thrust clearance until the thrust clearance becomes 0 (zero) and loosen the screw by 1/4 turn from this point.

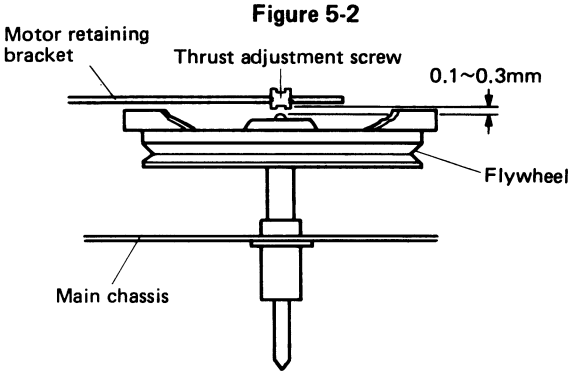


Figure 5-3

■ PINCH ROLLER PRESSURE ADJUSTMENT

(Refer to Figure 5-4)

1. Place the unit in play mode.
2. Use a tension gauge (0 ~ 500 gr.) to push it to a point Ⓐ of a pinch roller until the pinch roller comes away the capstan. Next gradually weaken the force in the reverse direction until the pinch roller hits the capstan (that is, it begins rotating), then see that tension gauge is reading 300 to 400 grams.

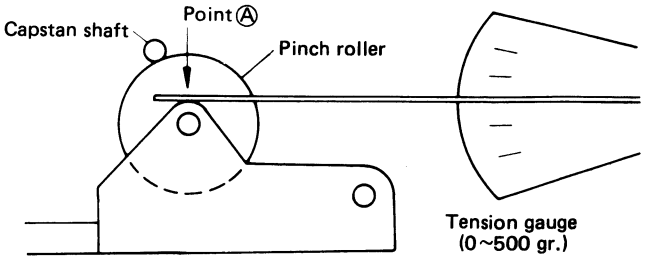


Figure 5-4

■ TAPE SPEED ADJUSTMENT

(Refer to Figure 5-5)

Note:

Before the adjustment, clean a belt, flywheel, capstan, pinch roller and the other running parts. Check the torque of take-up reel and pressure of the pinch roller.

1. Connect a 4 ohm dummy resistor to speaker output socket SO401.
2. Place the unit in a horizontal position and playback the test tape (TEAC MTT-111, 250 pWb/mm −10dB, 3kHz).
3. Use a bladed screwdriver to adjust, through the adjusting hole at the bottom of motor, a semi-variable resistor so that the reproduced frequency becomes 2970 to 3030Hz.

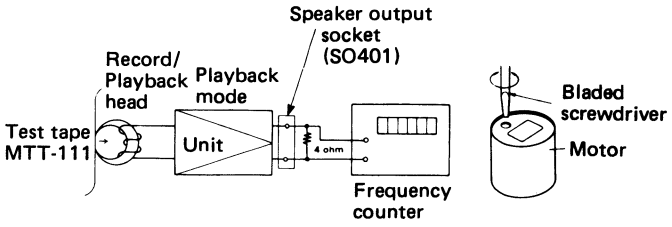


Figure 5-5

■ PAUSE MECHANISM ADJUSTMENT

(Refer to Figure 6-1)

1. Set the unit in play mode and slowly push the pause key. Make sure that a play idler and the pinch roller come respectively off the take-up reel and capstan at the same time.
2. If the item 1 above is found not normal, adjust it by bending a part (marked A) of the pinch roller.

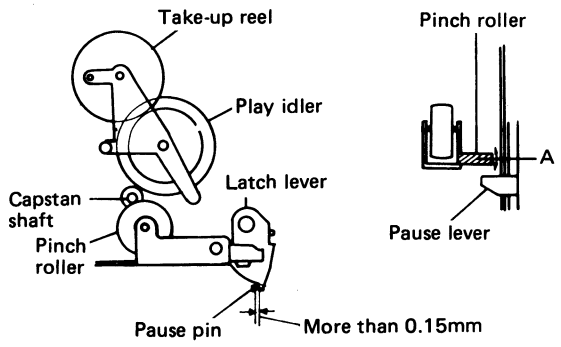


Figure 6-1

■ TORQUE CHECK AT PLAY, FAST FORWARD AND REWIND MODES

1. Put a torque measuring cassette into the unit.
2. The torque values in each mode must be as tabulated below.

Mode	Torque measuring cassette	Measured torque
Playback	TW-2111	30 ~ 60 gram·cm
Fast-forward	TW-2231	70 ~ 110 gram·cm
Rewind	TW-2231	70 ~ 110 gram·cm

ELECTRICAL MEASUREMENT

* Set the Function selector switch (SW101) to the TAPE position.

■ RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

(Refer to Figure 6-2)

1. Connect a 4 ohm dummy resistor to the speaker output socket SO401 and further connect the V.T.V.M. thereto.
2. Put a test tape (MTT-114: 10 kHz, −10 dB Recorded).
3. Set the metal tape switch SW202 to the off position.
4. Place the unit in playback mode.
5. Adjust the head azimuth adjusting screw so that the playback output voltage becomes maximum in both channels.

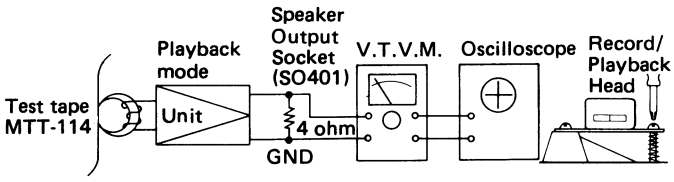


Figure 6-2

■ ERASE CURRENT CHECK

(Refer to Figure 6-3)

1. Connect the V.T.V.M. across 1 ohm resistor R230.
2. Set metal tape switch SW202 to off position.
3. Place the unit in record mode.
4. Make sure erase voltage is 65 ~ 85mV.
5. Set metal tape switch SW202 to on position.
6. Make sure erase voltage is 125 ~ 155mV and record oscillator bias frequency is 85 ± 6kHz.

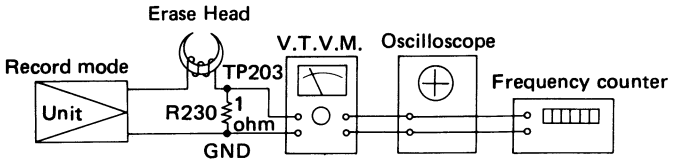


Figure 6-3

■ RECORD AMPLIFIER BIAS OSCILLATION ADJUSTMENT (Refer to Figure 6-4)

1. Connect the V.T.V.M. across 100 ohm resistor R229.
2. Set metal tape switch SW202 to the off position.
3. Place the unit in record mode and beat canceller switch SW401 to A position.
4. Adjust semi-variable resistor VR201 so that the V.T.V.M. readings becomes 70mV.
5. Set metal tape switch SW202 to on position.
6. Make sure the V.T.V.M. readings are 135 ± 10mV.

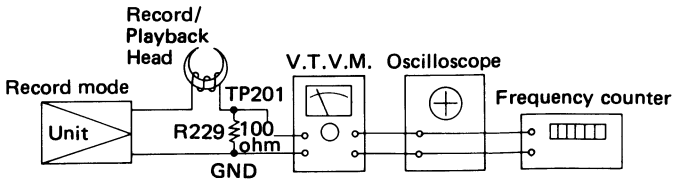


Figure 6-4

PLAYER ADJUSTMENT

■ **ADJUSTMENT OF TONEARM AUTOMATICALLY RETURN POSITION** (Refer to Figure 7-1 and 7-2)

1. Pull out turntable mat and platter.
2. Rotate a Tonearm return gear for arrow.
3. Adjust the adjusting screw Ⓐ so that the turntable shaft will be able to rotate smoothly, with the teeth of the tonearm return gear no longer engaging with those of a turntable shaft gear.
4. Reset the turntable to its place, play a record and check for the automatically return starting position.
   * If a tonearm begins to move back even before a record play has not yet reached its end, rotate the adjusting screw Ⓑ counterclockwise, until the automatically return operation becomes able to start from its proper position.
   * If the tonearm is still stopped even after a record play has reached its end, rotate the adjusting screw Ⓑ clockwise, until the automatically return operation becomes able to start from its proper position.

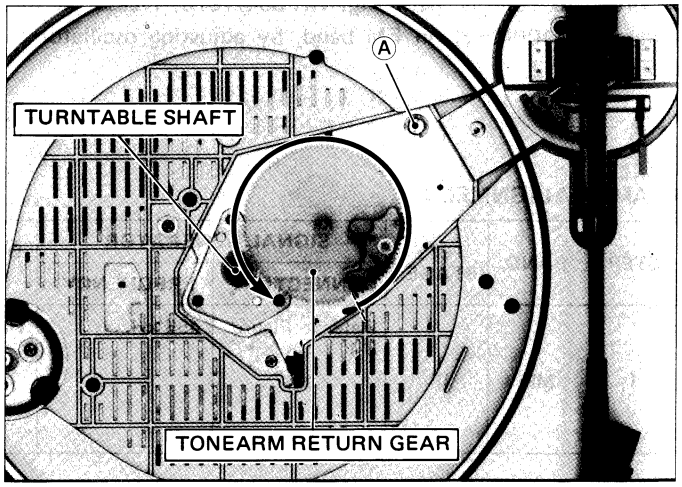


Figure 7-1

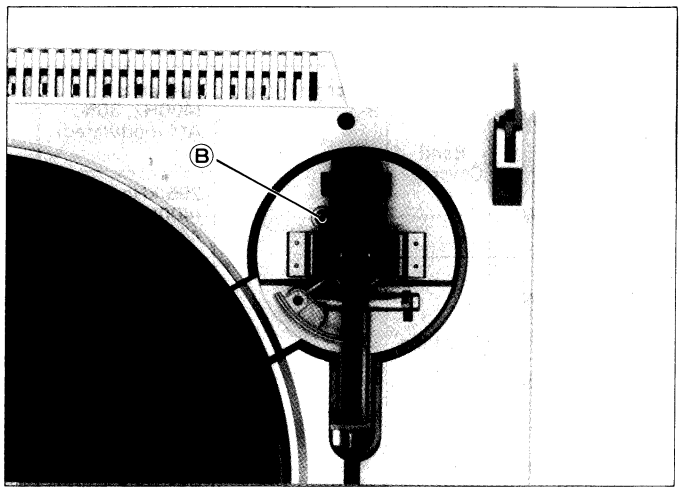


Figure 7-2

DIAL CORD STRINGING

Setting of the dial cord:

1. Turn the drum fully clockwise (at the highest frequency position).
2. Put a hook of the spring on the central hole of the drum.
3. Then proceed with stringing in the numerical order from ① to ⑨.

Setting of the "0" point (Refer to Figure 12-3)

1. Turn the tuning shaft fully clockwise (at the lowest frequency position).
2. Align the point Ⓐ of the dial pointer to the hallmark (longer line mark) of the dial pointer bracket.

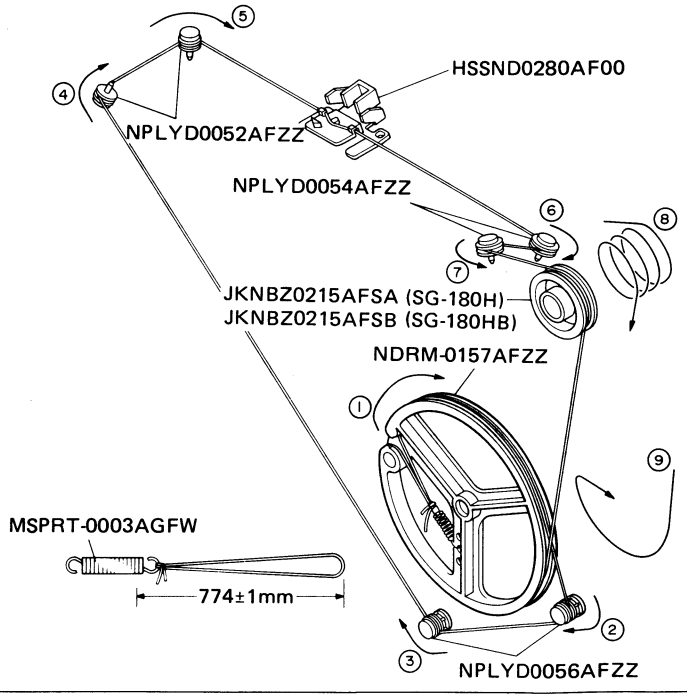


Figure 7-3

THE INSTRUCTION OF FREQUENCY ADJUSTMENT

In order to comply with Pfg. Nr. 358/1970, Please fix the low end of dial frequency (87.5MHz) and the high end of dial frequency (108MHz) on FM band, by adjusting oscillator coil L103 and oscillator tirmmer TC101-C respectively, as illustrated in Figure 12-2.

ALIGNMENT PROCEDURE

■ AM IF ALIGNMENT

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	SCOPE CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	MW	IF	Refer to Figure 8-1	455 kHz	High end of Dial	Oscilloscope connected to test point TP108 and ground.	AM IF transformer T104 AM detector transformer T105.	Adjust for maximal output. Repeat twice or three times. (Refer to Figure 8-2)

■ AM RF ALIGNMENT

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	LW	Band Coverage	Refer to Figure 8-3	144 kHz (400Hz, 30%, AM modulated)	Low end of Dial	V.T.V.M.connected to test point TP108 and ground	Oscillation coil L106.	Adjust for maximal output.
2	LW			295 kHz (400Hz, 30%, AM modulated)	High end of Dial	Same as above.	Oscillation trimmer TC103-A.	Same as above.
3	LW	Tracking		160 kHz (400Hz, 30%, AM modulated)	160 kHz (Shown in Figure 12-3)	Same as above.	Antenna coil L105.	Same as above.
4	LW			260 kHz (400Hz, 30%, AM modulated)	260 kHz (Shown in Figure 12-3)	Same as above.	Antenna trimmer TC102-A.	Same as above.
5	MW	Band Coverage		513 kHz (400Hz, 30%, AM modulated)	Low end of Dial	Same as above.	Oscillation coil L107.	Same as above.
6	MW			1650 kHz (400Hz, 30%, AM modulated)	High end of Dial	Same as above.	Oscillation trimmer TC103-B.	Same as above.
7	MW	Tracking		600 kHz (400Hz, 30%, AM modulated)	600 kHz (Shown in Figure 12-3)	Same as above.	Antenna coil L105.	Same as above.
8	MW			1400 kHz (400Hz, 30%, AM modulated)	1400 kHz (Shown in Figure 12-3)	Same as above.	Antenna trimmer TC102-B.	Same as aobve.
9	Repeat steps 1 and 8 until no further improvement can be made.							

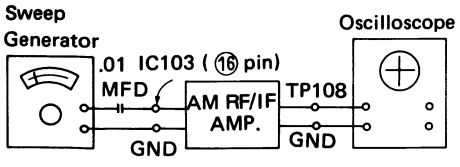


Figure 8-1

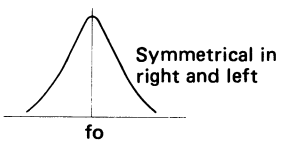


Figure 8-2

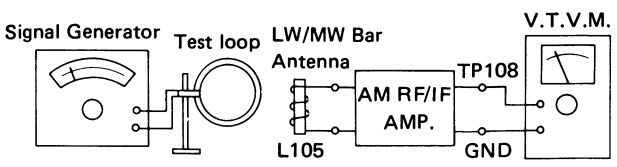


Figure 8-3

■ FM ALIGNMENT

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	FM	IF [NOTE A] (Refer to Page 12)	Refer to Figure 9-1.	10.7 MHz (400 Hz, 40 kHz deviation)	High end of dial.	Oscilloscope connected to test point TP102 and ground.	FM IF transformer T101.	Rotate the core of IF transformer T101 to adjust so that the waveform becomes symmetrical in right and left and attains the maximal in height and width. (Figure 9-3)
2	FM	De-tection		Same as above.	Same as above.	Oscilloscope connected to test point TP105 and ground.	FM quadrature detector T102 and T103.	Rotate the core to adjust so that the waveform (Figure 9-4) becomes symmetrical in the upper and lower with the best linearity.
3	Repeat steps 1 and 2 until no further improvement can be made.							
4	FM	Band Coverage	Refer to Figure 9-2.	87.3 MHz (400Hz, 40 kHz deviation)	Low end of dial.	V.T.V.M. connected to test point TP105 and ground.	FM local oscillation coil L103.	Adjust for maximal output.
5	FM			108.3 MHz (400 Hz, 40 kHz deviation)	High end of dial.	Same as above.	FM local oscillation trimmer TC101-C.	Same as above.
6	FM	Tracking		90 MHz (400 Hz, 40 kHz deviation)	90 MHz (Shown in Figure 12-3)	Same as above.	FM antenna coil L101 and FM RF coil L102.	Same as above.
7	FM			106 MHz (400 Hz, 40 kHz deviation)	106 MHz (Shown in Figure 12-3)	Same as above.	FM antenna trimmer TC101-A and FM RF trimmer TC101-B.	Same as above.
8	Repeat steps 4 and 7 until no further improvement can be made.							

■ FM MUTING ADJUSTMENT

- Set the function selector switch SW101 at FM stereo position.

STEP	SIGNAL GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
	CONNECTION	FREQUENCY				
1	Refer to Figure 9-1.	98 MHz (400Hz, 40kHz deviation 23 dB input)	98 MHz	V.T.V.M. connected to TP105 and ground	VR102	Adjust for minimum output (0 V)

■ FM MULTIPLEX ADJUSTMENT

- Set the function selector switch SW101 at FM stereo position.

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	FM	V.C.O.	Refer to Figure 9-5	98 MHz (1kHz, 40kHz deviation)	98 MHz	TP107	VR101	Adjust for 19kHz ± 0.1kHz

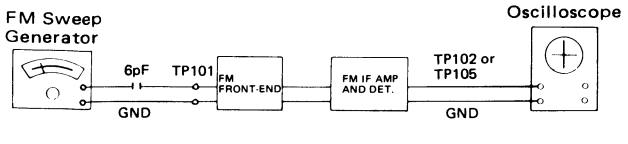


Figure 9-1

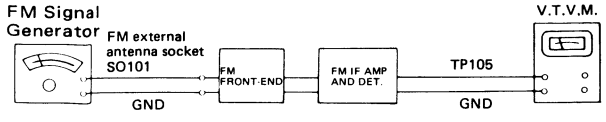


Figure 9-2

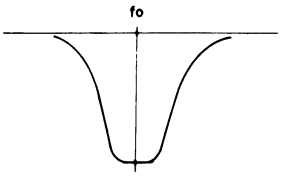


Figure 9-3

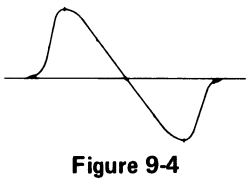


Figure 9-4

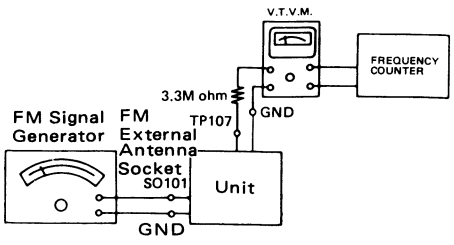


Figure 9-5

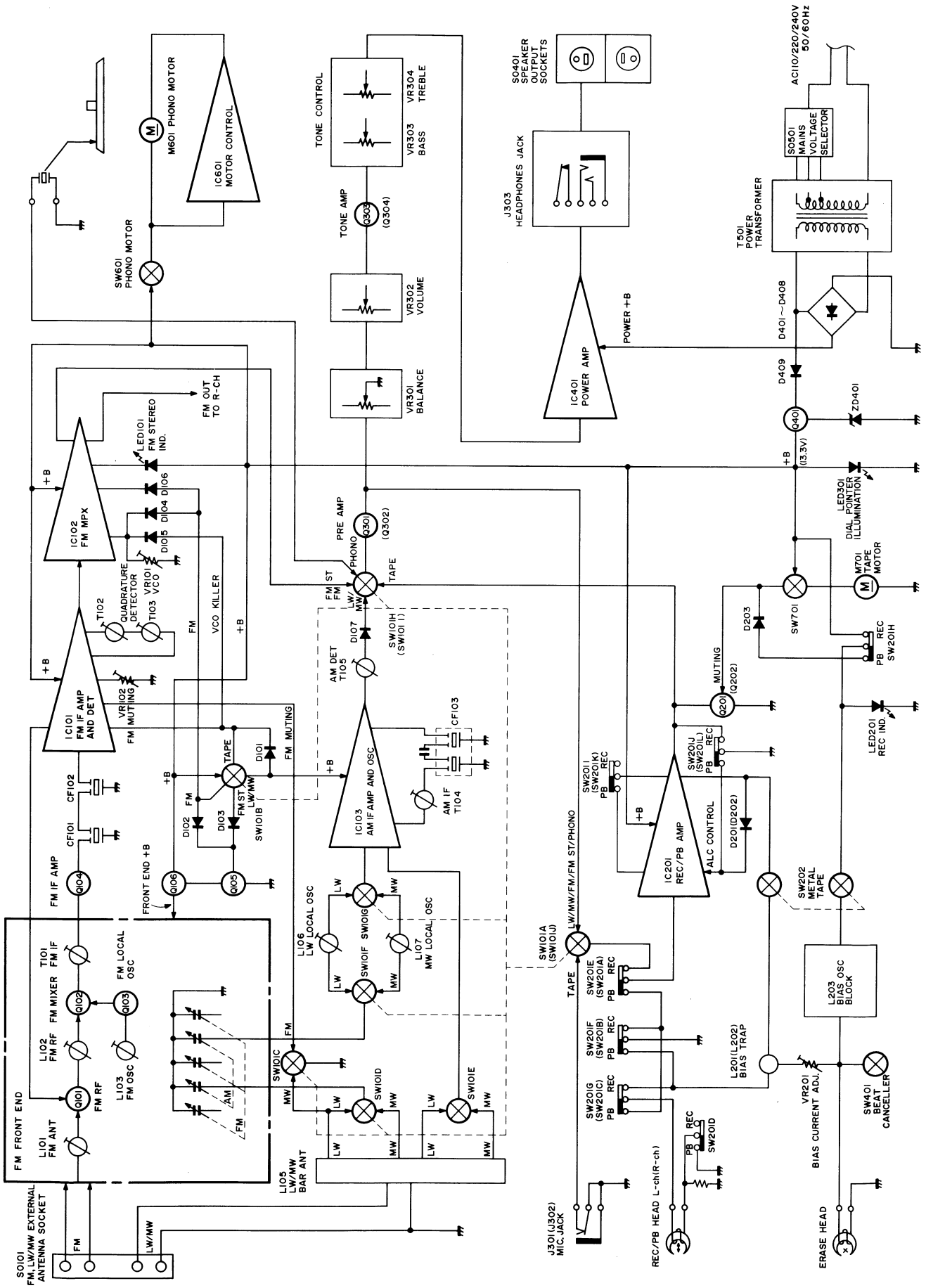


Figure 10 BLOCK DIAGRAM

EQUIVALENT CIRCUIT or BLOCK DIAGRAM OF IC

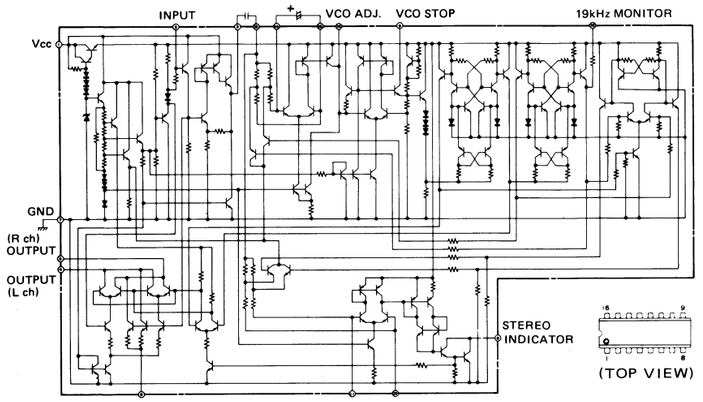


Figure 11-1 IC102 RH-IX1007AFZZ

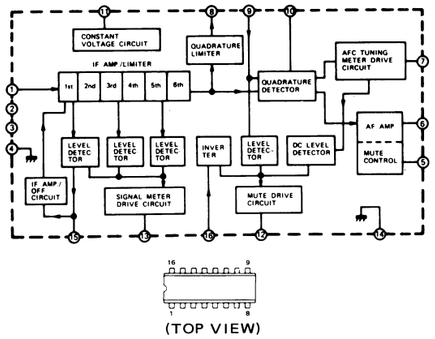


Figure 11-3 IC101 VHILA1231N/-1

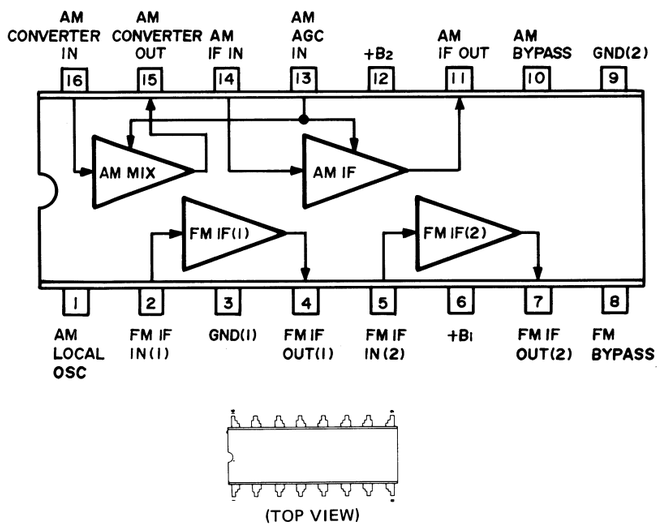


Figure 11-2 IC103 RH-IX1086AFZZ

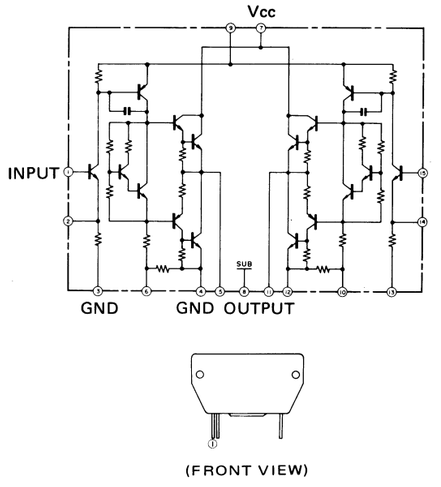


Figure 11-4 IC401 VHISTK436X/-1

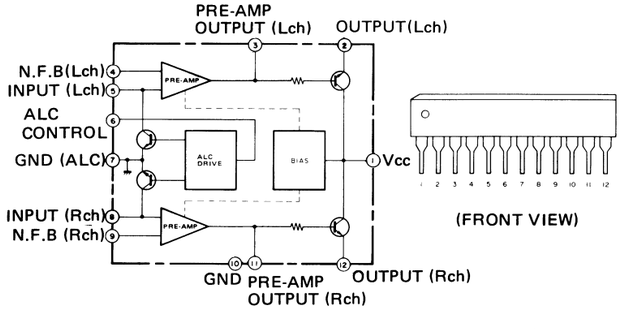


Figure 11-5 IC201 VHITA7328AP-1

NOTE A

The ceramic filter used for this set is available in 5 types and each of them is given a color indication to differentiate the central frequency from that of the others, as described below. In the actual use, be sure to make 2 ceramic filters of the same type (the same color) as a pair to put them in the set.
When other ceramic filters than that given a red color indication (with the central frequency of 10.7MHz) are used, note that with such filters the marker (10.7MHz) of FM sweep generator will be deviated; therefore be sure to cut off the marker at the time of the adjustment.

Central Frequency (fo)	D	Black	10.64MHz ±30kHz
	B	Blue	10.67MHz ±30kHz
	A	Red	10.70MHz ±30kHz
	C	Orange	10.73MHz ±30kHz
	E	White	10.76MHz ±30kHz

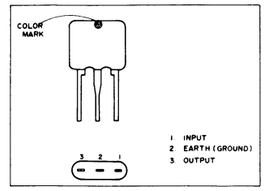


Figure 12-1

ALIGNMENT POINTS

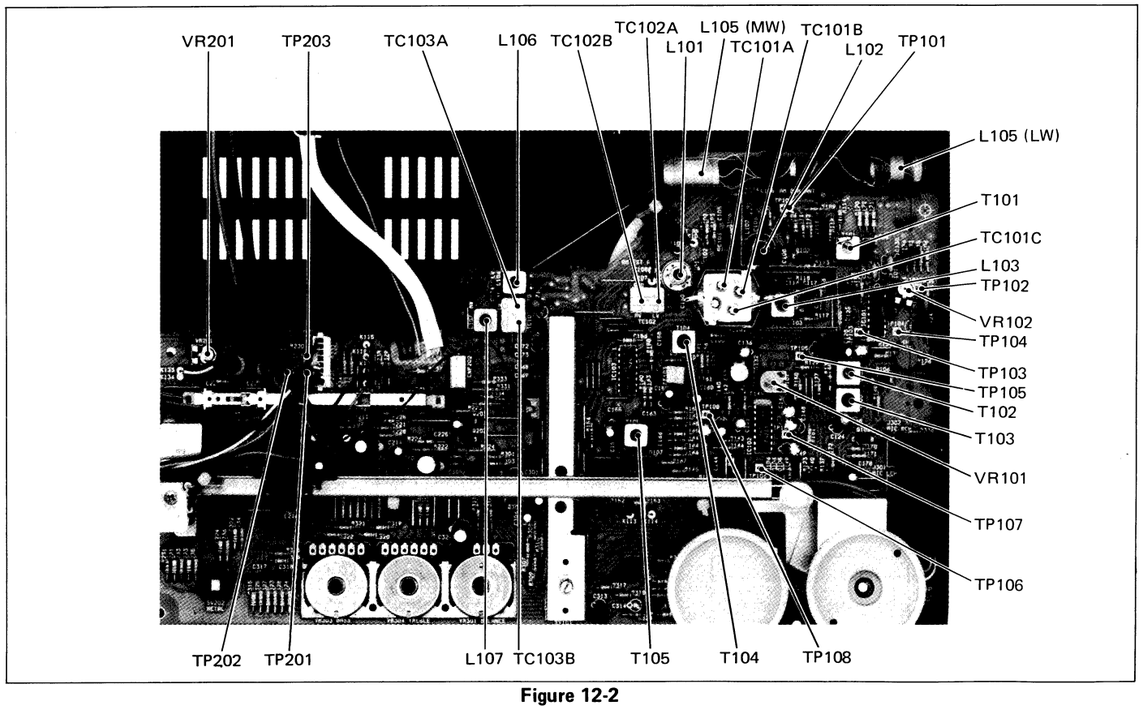


Figure 12-2

■ DIAL POINTER SETTING

DIAL POINTER SETTING

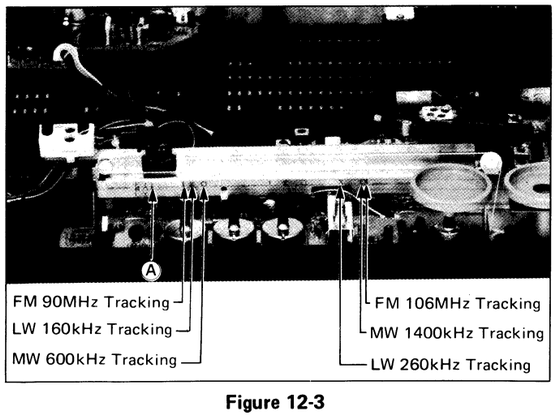
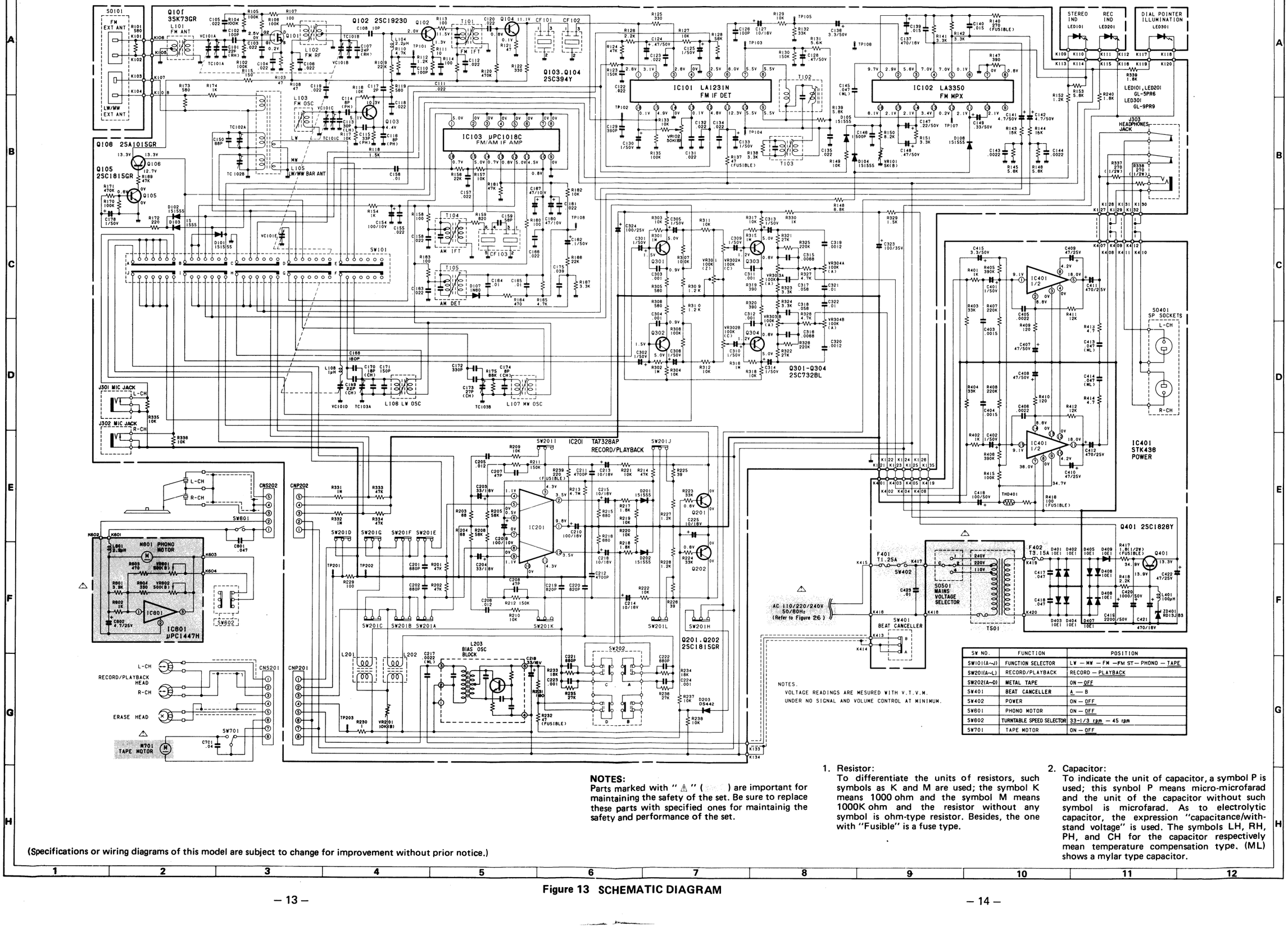


Figure 12-3

The marks "I", "X" and "O" will be used in either LW, MW or FM tracking.

- "I" marks in three positions.
  The left is for FM 90MHz tracking, the middle for FM 98MHz tracking and the left for FM 106MHz tracking.
- "X" marks in three positions:
  The left is for LW 160kHz tracking, the middle for LW 220kHz tracking and the right for LW 260kHz tracking.
- "O" marks in three positions:
  The left is for MW 600kHz tracking, the middle for MW 1000kHz tracking and the right for MW 1400kHz tracking.



NOTES:
Parts marked with " ⚠ " ( ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintainig the safety and performance of the set.

1. Resistor:
To differentiate the units of resistors, such symbols as K and M are used; the symbol K means 1000 ohm and the symbol M means 1000K ohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.

2. Capacitor:
To indicate the unit of capacitor, a symbol P is used; this synbol P means micro-microfarad and the unit of the capacitor without such symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/with-stand voltage" is used. The symbols LH, RH, PH, and CH for the capacitor respectively mean temperature compensation type. (ML) shows a mylar type capacitor.

(Specifications or wiring diagrams of this model are subject to change for improvement without prior notice.)

Figure 13 SCHEMATIC DIAGRAM

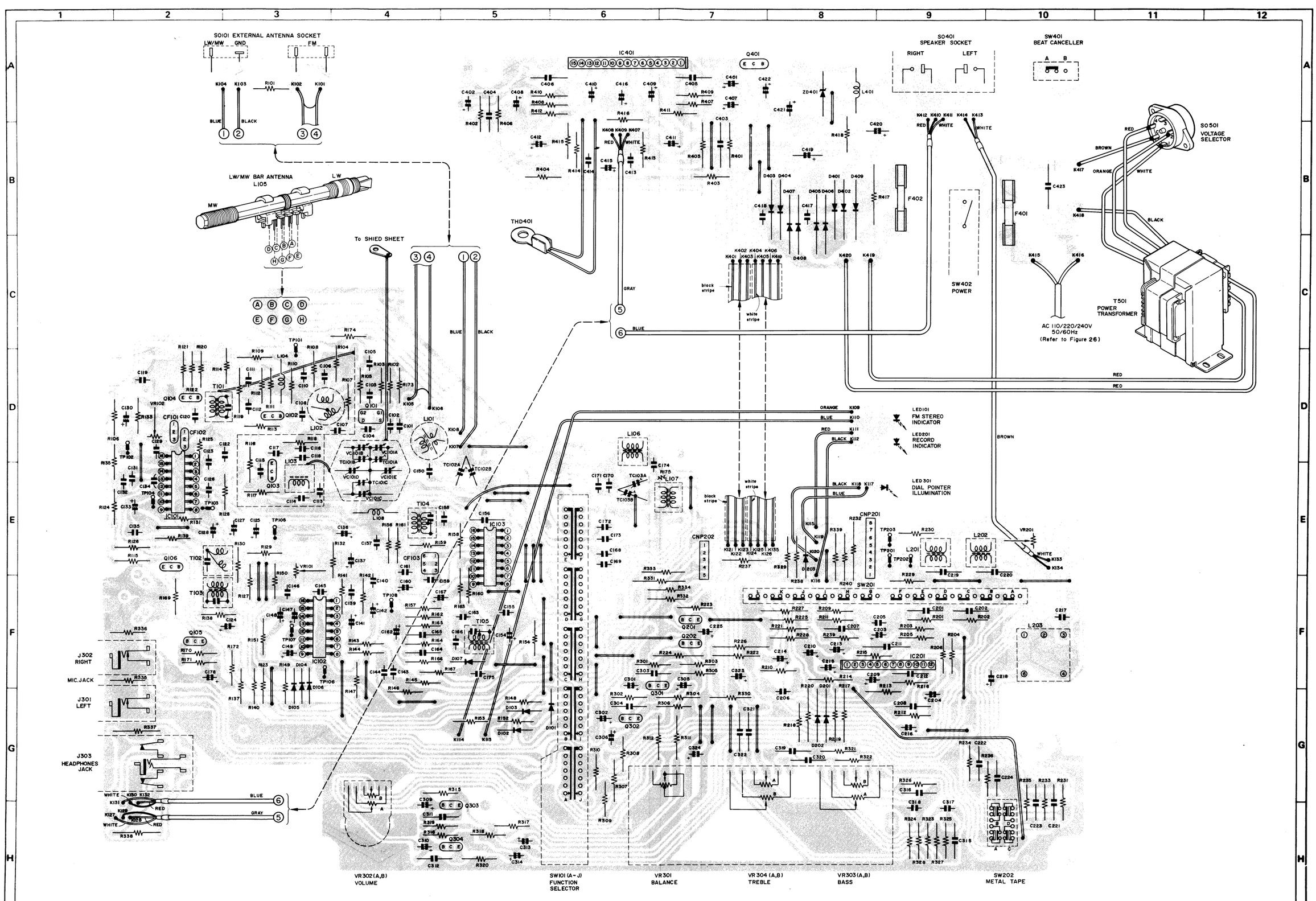
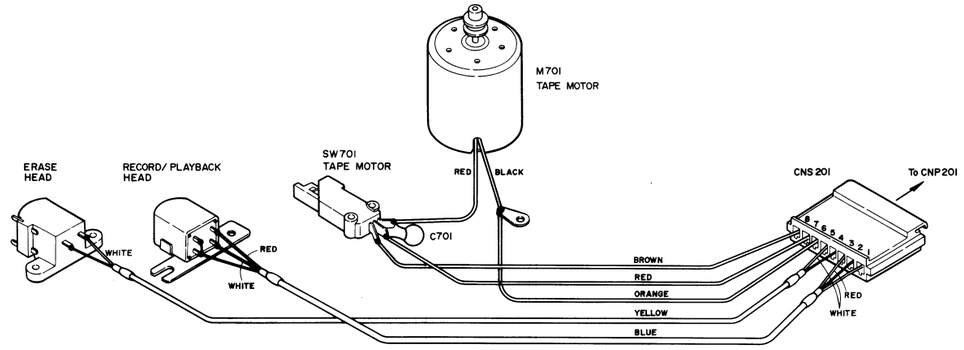


Figure 15 WIRING SIDE OF P.W.BOARD



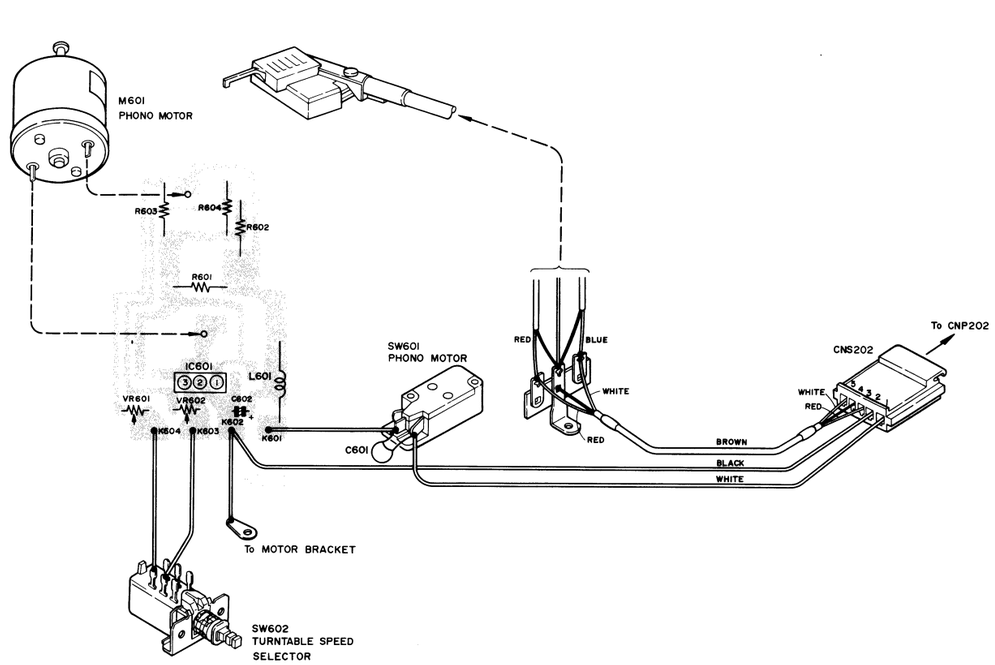


Figure 17 WIRING SIDE OF P.W.BOARD

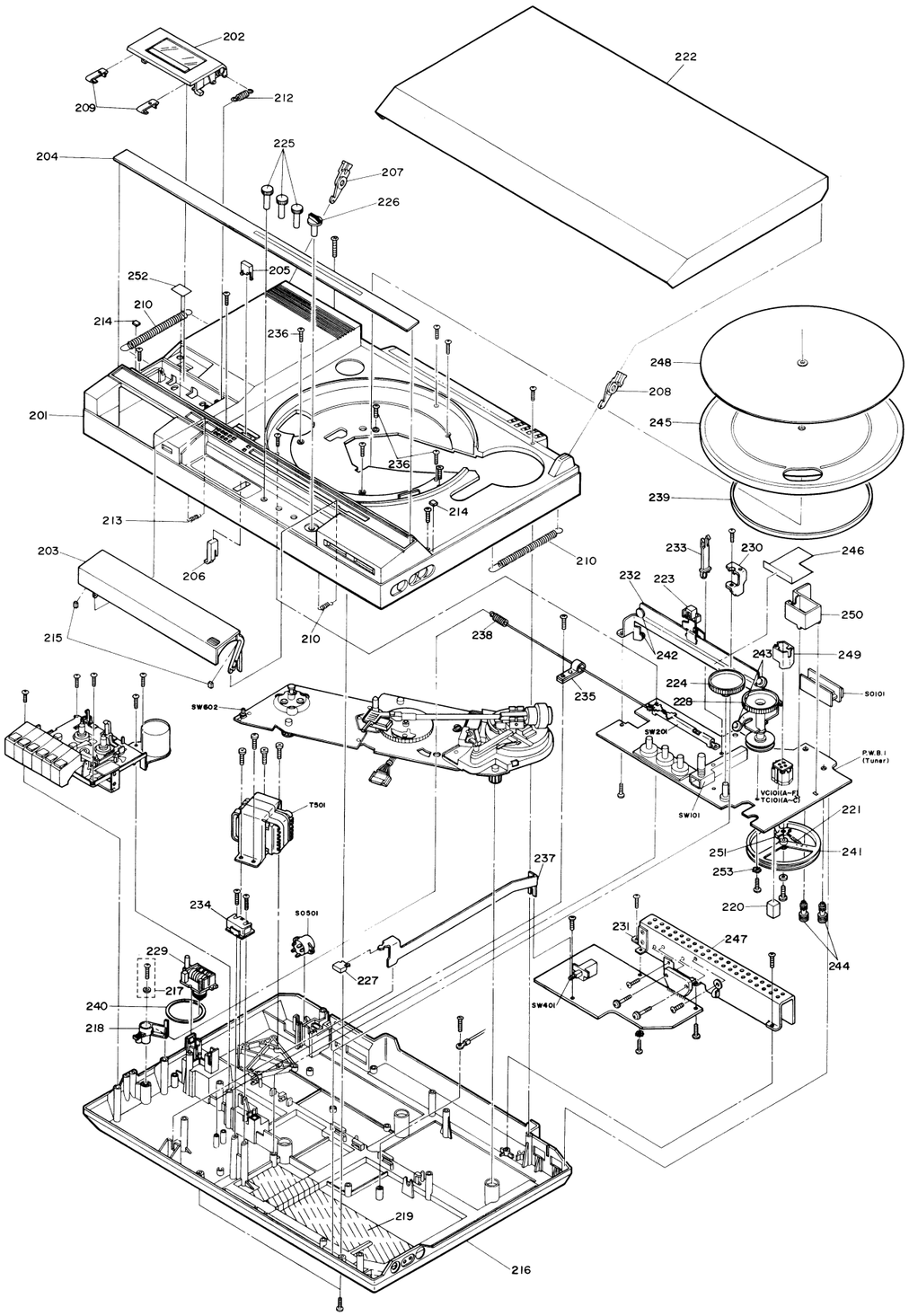


Figure 18 CABINET EXPLODED VIEW

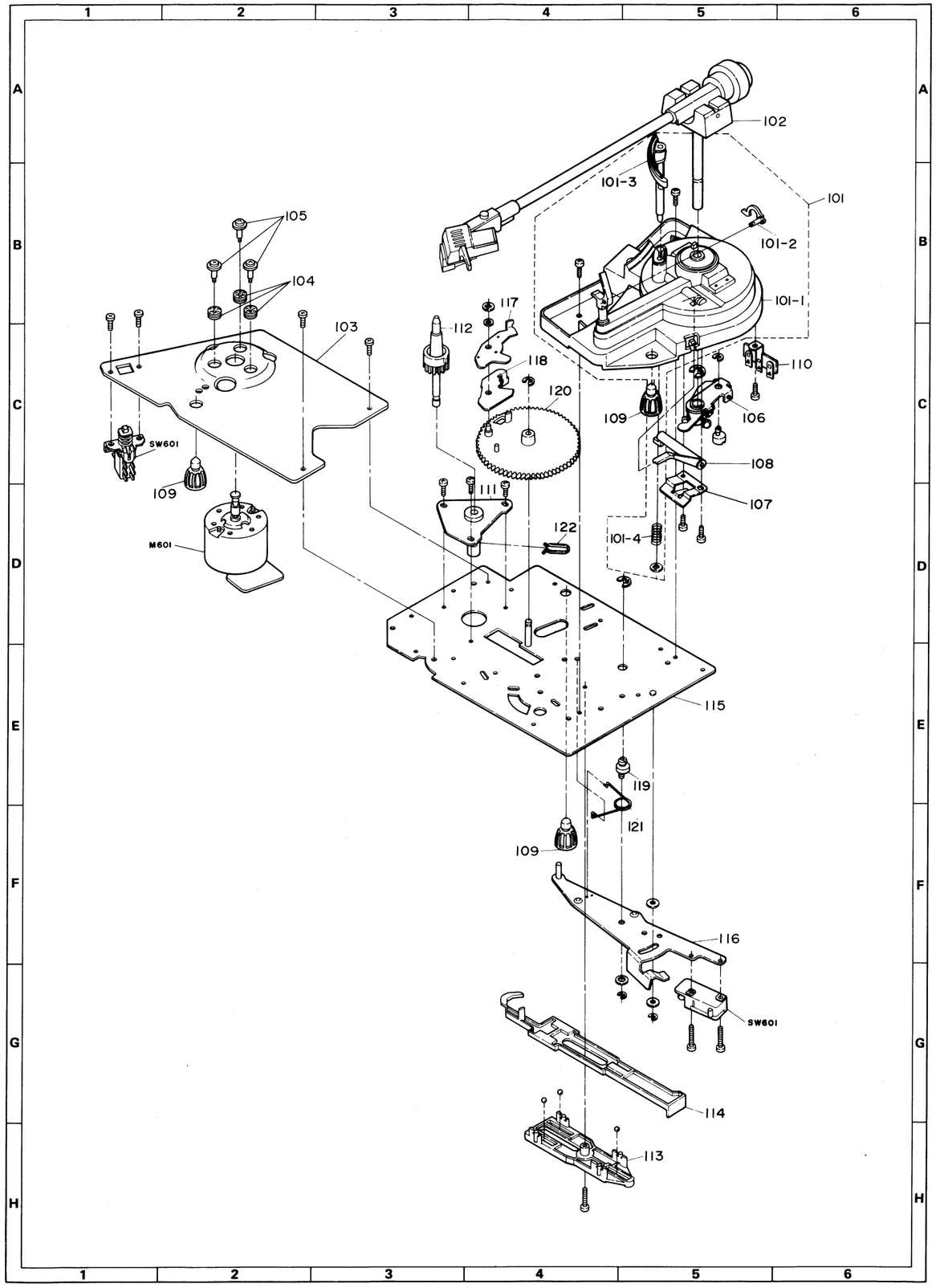
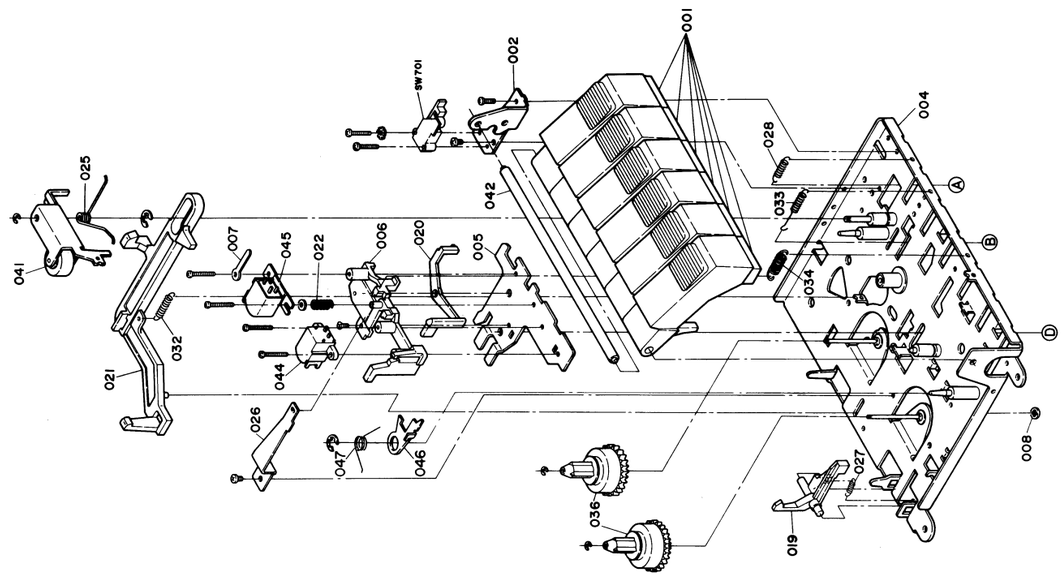
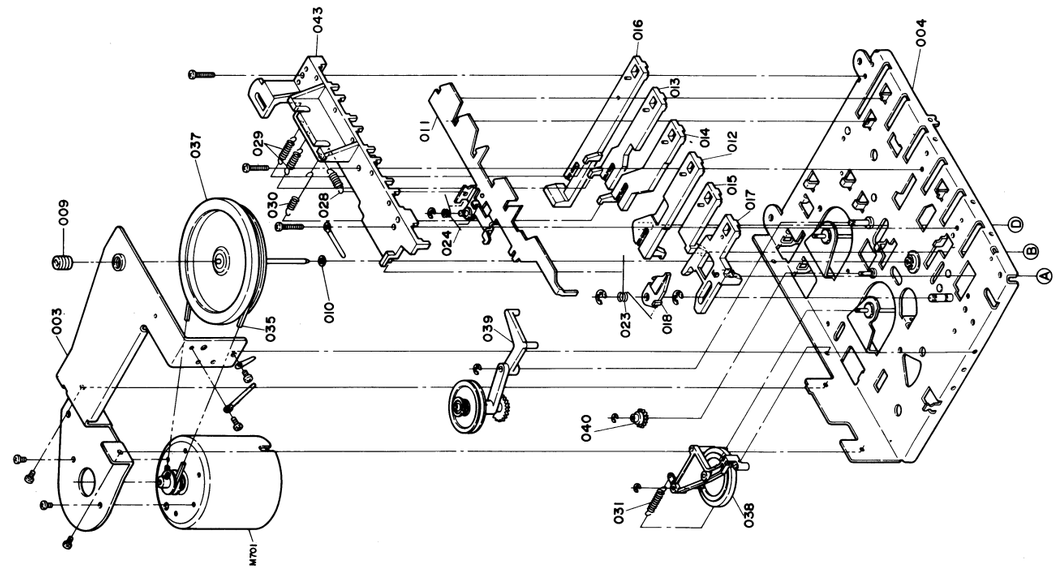


Figure 19 PLAYER MECHANISM EXPLODED VIEW



TOP



BOTTOM

Figure 20 TAPE-DECK MECHANISM EXPLODED VIEW

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTES: Parts marked with "⚠" are important for maintaining the safety of teh set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO.	PART NO.	DESCRIPTION	CODE
		INTEGRATED CIRCUITS	
IC101	VHILA1231N/-1	FM IF Amp. and Detector (LA1231N)	AL
IC102	RH-IX1007AFZZ	FM Multiplex (LA3350)	AQ
IC103	RH-IX1086AFZZ	AM/FM IF Amp. (μPC1018C)	AK
IC201	VHITA7328AP-1	Record/Playback Amp. (TA7328AP)	AK
IC401	VHISTK436X/-1	Power Amp. (STK-436)	AW
		TRANSISTORS	
Q101	VS3SK73-GR/-1	FM RF Amp. (3SK73GR)	AF
Q102	VS2SC1923O/-1	FM Mixer (2SC1923O)	AC
Q103	VS2SC394-Y/-1	FM Local Oscillator (2SC394Y)	AB
Q104	VS2SC394-Y/-1	FM IF Amp. (2SC394Y)	
Q105	VS2SC1815GR-1	Switching (2SC1815GR)	
Q106	VS2SA1015GR-1	Switching (2SA1015GR)	
Q201, 202	VS2SC1815GR-1	Muting (2SC1815GR)	
Q301, 302	VS2SC732-B/-1	Pre-Amp. (2SC732BL)	AD
Q303, 304	VS2SC732-B/-1	Tone Amp. (2SC732BL)	AD
Q401	VS2SC1826-Y-1	Voltage Regulator (2SC1826Y)	AF
		DIODES	
D101, 102, D103, 104, D105, 106	VHD1S1555V/1G	Protector, Reverse Current (1S1555)	AB
D107	VHD1N60////-1	AM Detector (1N60)	
D201, 202	VHD1S1555V/1G	ALC (1S1555)	
D203	VHDDS442///-1	Muting (DS442)	AA
D401, 402, D403, 404, D405, 406, D407, 408, D409	VHD10E1////-1	Power Rectifier (10E1)	AC
		ZENER DIODE	
ZD401	VHERD130JB3-1	Voltage Regulator (RD13JB3)	AB
		LIGHT EMITTING DIODES	
LED101	VHPGL5PR6//-1	FM Stereo Indicator (GL-5PR6)	AC
LED201	VHPGL5PR6//-1	Record Indicator (GL-5PR6)	
LED301	VHPGL-9PR9/-1	Dial Pointer Illumination (GL-9PR9)	

REF. NO.	PART NO.	DESCRIPTION	CODE
		THERMISTOR	
THD401	RH-QX1006AFZZ	Thermal Protector	AE
		CONTROLS	
VR101	RVR-M0198AFZZ	5K ohm (B), V.C.O. Frequency Adjustment	AC
VR102	RVR-M0328AFZZ	50K ohm (B), FM Muting Adjustment	AB
VR201	RVR-M0325AFZZ	10K ohm (B), Bias Current Adjustment	AB
VR301, VR303(A,B), VR304(A,B)	RVR-Z0105AFZZ	100K ohm (Z), Balance 100K ohm (A), Bass 100K ohm(A), Treble	AL
VR302(A,B)	RVR-C0086AFZZ	100K ohm (C), Volume	AG
VC101(A~E), TC101(A~C)	RVC-R0081AFZZ	Variable Capacitor, Tuning with Trimmers TC101A: FM Antenna Trimmer TC101B: FM RF Trimmer TC101C: FM Local Oscillator Trimmer	AR
TC102(A,B)	RTO-H2050AFZZ	LW/MW Antenna Trimmer	AD
TC103(A,B)	RTO-H2050AFZZ	LW/MW Local Oscillator Trimmer	AD
		TRANSFORMERS	
T101	RCILI0204AFZZ	FM IF	AC
T102	RCILD0068AFZZ	FM Quadrature Detector	AE
T103	RCILD0069AFZZ	FM Quadrature Detector	AD
T104	RCILI0271AFZZ	AM IF	AC
T105	RCILI0239AFZZ	AM Detector	AC
⚠T501	RTRNP0769AFZZ	Power	AZ
		COILS	
L101	RCILA0407AFZZ	FM Antenna	AD
L102	RCILR0359AFZZ	FM RF	
L103	RCILB0418AFZZ	FM Local Oscillator	
L104	VP-CH2R2M0000	2.2μH, FM IF Trap	AB
L105	RCILA0518AFZZ	LW/MW Bar Antenna	AM
L106	RCILB0430AFZZ	LW Local Oscillator	AD
L107	RCILB0431AFZZ	MW Local Oscillator	AC
L108	VP-CH1R0M0000	1μH, Choke Coil	AB
L201, 202	RCILB0480AFZZ	Bias Step-up	AD
L203	RCILB0558AFZZ	Bias Oscillator Block	AN
L401	VP-CH101K0000	100μH, Choke Coil	AB

REF. NO.	PART NO.	DESCRIPTION	CODE
		CERAMIC FILTERS	
CF101, 102	RFILF0077AFZZ	FM IF, 10.7MHz	AF
CF103	RFILA0074AFZZ	AM IF, 455kHz	AE
		ELECTROLYTIC CAPACITORS (Unless otherwise specified capacitors are ±20% type.)	
C124	RC-EZA474AF1H	.47MFD, 50V	AB
C125	RC-EZA105AF1H	1MFD, 50V	
C127	RC-EZA106AF1C	10MFD, 16V	
C128	VCEALA1HW474M	.47MFD, 50V	
C130, 133	RC-EZA105AF1H	1MFD, 50V	
C136	RC-EZA335AF1H	3.3MFD, 50V	
C137	RC-EZV477AF1C	470MFD, 16V	
C141, 142	RC-EZA475AF1H	4.7MFD, 50V	
C147	VCEALA1HW224M	.22MFD, 50V	
C148	VCEALA1HW474M	.47MFD, 50V	
C149	VCEALA1HW334M	.33MFD, 50V	
C154	RC-EZA107AF1A	100MFD, 10V	
C160	RC-EZA476AF1A	47MFD, 10V	
C162	VCEALA1HW104M	.1MFD, 50V	AB
C167	RC-EZA476AF1A	47MFD, 10V	
C178	RC-EZA105AF1H	1MFD, 50V	
C203, 204	RC-EZA336AF1C	33MFD, 16V	
C209	RC-EZA107AF1A	100MFD, 10V	
C210	RC-EZA107AF1C	100MFD, 16V	
C213, 214, C215, 216	RC-EZA106AF1C	10MFD, 16V	
C218	RC-EZA336AF1C	33MFD, 16V	
C225	RC-EZA106AF1C	10MFD, 16V	
C301, 302, C305, 306, C309, 310, C313, 314	RC-EZA105AF1H	1MFD, 50V	
C323	RC-EZV107AF1V	100MFD, 35V	AC
C324	RC-EZA107AF1E	100MFD, 25V	AC
C401, 402	RC-EZA105AF1H	1MFD, 50V	
C407, 408	RC-EZA476AF1H	47MFD, 50V	AB
C409, 410	RC-EZA476AF1E	47MFD, 25V	
C411, 412	RC-EZV477AF1E	470MFD, 25V	AC
C415	RC-EZA335AF1H	3.3MFD, 50V	
C416	RC-EZV107AF1H	100MFD, 50V	AB
C419	RC-EZ1143AFZZ	2200MFD, 50V	AL
C420	RC-EZW108AF1H	1000MFD, 50V	AG
C421	RC-EZV477AF1C	470MFD, 16V	AC
C422	RC-EZA476AF1E	47MFD, 25V	AB
		CAPACITORS (Unless otherwise specified capacitors are ceramic type.)	
C101	VCCRPU1HH220J	22PF, 50V, ±5%, (RH)	AA
C102	VCCSPA1HL101J	100PF, 50V, ±5%	
C103, 104, C105, 106	VCKZPA1HF223Z	.022MFD, 50V, +80% –20%	
C107	VCCRPU1HH240J	24PF, 50V, ±5%, (RH)	
C108	VCCSPA1HL100J	10PF, 50V, ±5%	
C110	VCCSPA1HL101J	100PF, 50V, ±5%	
C111, 112	VCKZPA1HF223Z	.022MFD, 50V, +80% –20%	
C113	VCCLPU1HH300J	30PF, 50V, ±5%, (LH)	
C114	VCCPPU1HH8R0D	8PF, 50V, ±0.5PF, (PH)	
C115	VCCPPU1HH330J	33PF, 50V, ±5%, (PH)	
C116	VCCPPU1HH8R0D	8PF, 50V, ±0.5PF, (PH)	
C117	VCCSPA1HL2R0C	2PF, 50V, ±0.25PF	
C118, 119, C120, 122, C123	VCKZPA1HF223Z	.022MFD, 50V, +80% –20%	

REF. NO.	PART NO.	DESCRIPTION	CODE
C126	VCCSPA1HL101J	100PF, 50V, ±5%	AA
C129	VCCSPA1HL391J	390PF, 50V, ±5%	
C131, 132, C134, 135	VCKZPA1HF223Z	.022MFD, 50V, +80% –20%	
C139, 140	VCTYPA1EX153K	.015MFD, 25V, ±10% Semiconductor	
C143, 144	VCTYPA1EX222K	.0022MFD, 25V, ±10% Semiconductor	
C145	VCQYKA1HM473K	.047MFD, 50V, ±10%, Mylar	AB
C146	VCQSMA1HL152J	.0015MFD, 50V, ±5%, Styrol	
C150	VCCSPA1HL680J	68PF, 50V, ±5%	AA
C155	VCKZPA1HF223Z	.022MFD, 50V, +80% –20%	
C156	VCTYAT1EX103K	.01MFD, 25V, ±10%, Semiconductor	
C157, 158	VCKZPA1HF223Z	.022MFD, 50V, +80% –20%	
C159	VCCSPA1HL560J	56PF, 50V, ±5%	
C161, 163	VCKZPA1HF223Z	.022MFD, 50V, +80% –20%	
C164, 165	VCTYAT1EX103K	.01MFD, 25V, ±10%, Semiconductor	
C166	VCKZPA1HF223Z	.022MFD, 50V, +80% –20%	
C168	VCQSMA1HL181J	180PF, 50V, ±5%, Styrol	AB
C169	VCCCPU1HH220J	22PF, 50V, ±5%, (CH)	AA
C170	VCCCPU1HH180J	18PF, 50V, ±5%, (CH)	
C171	VCQSMA1HL151J	150PF, 50V, ±5%, Styrol	AB
C172	VCQSMA1HL331J	330PF, 50V, ±5%, Styrol	AB
C173	VCCCPU1HH270J	27PF, 50V, ±5%, (CH)	AA
C174	VCCCPU1HH8R0D	8PF, 50V, ±0.5PF, (CH)	AA
C175	VCTYPA1EX393K	.039MFD, 25V, ±10%, Semiconductor	AB
C201, 202	VCKYAT1HB681K	680PF, 50V, ±10%	AA
C205, 206	VCTYPA1EX123K	.012MFD, 25V, ±10%, Semiconductor	
C207, 208	VCCSAT1HL470J	47PF, 50V, ±5%	
C211, 212	VCTYAT1HV472K	.0047MFD, 50V, ±10%, Semiconductor	
C217	VCQYKA1HM222K	.0022MFD, 50V, ±10%, Mylar	AA
C219, 220	VCKYAT1HB821K	820PF, 50V, ±10%	
C221, 222	VCKYAT1HB681K	680PF, 50V, ±10%	
C223, 224, C303, 304 C311, 312	VCKYAT1HB102K	.001MFD, 50V, ±10%	
C315, 316	VCTYAT1EX682K	.0068MFD, 25V, ±10%, Semiconductor	
C317, 318	VCTYPA1EX563K	.056MFD, 25V, ±10%, Semiconductor	AB
C319, 320	VCKYAT1HB122K	.0012MFD, 50V, ±10%	AA
C321, 322	VCTYAT1EX103K	.01MFD, 25V, ±10%, Semiconductor	
C403, 404	VCTYAT1HV152K	.0015MFD, 50V, ±10%, Semiconductor	
C405, 406	VCTYAT1HV222K	.0022MFD, 50V, ±10%, Semiconductor	
C413, 414	VCQYKA1HM473K	.047MFD, 50V, ±10%, Mylar	AB
C417, 418	VCKZPA1HF473Z	.047MFD, 50V, +80% –20%	AA
⚠C423	RC-FZ071CAFZZ	.01MFD, 250V, ±20%, Metallized Polyester Film	AE
C601	VCKZPU1HF473Z	.047MFD, 50V, +80% –20%	AA
C701	VCKZPU1HF403Z	.04MFD, 50V, +80% –20%	AA
		RESISTORS (Unless otherwise specified resistors are ¼W, ±5%, Carbon type.)	
R101	VRD-ST2EE561J	560 ohm	AA
R102	VRD-ST2EE104J	100K ohm	
R103	VRD-ST2EE470J	47 ohm	
R104, 105, R106	VRD-ST2EE104J	100K ohm	

REF. NO.	PART NO.	DESCRIPTION	CODE
R107	VRD-ST2EE101J	100 ohm	
R108	VRD-ST2EE470J	47 ohm	
R109	VRD-ST2EE223J	22K ohm	
R110	VRD-ST2EE472J	4.7K ohm	
R111	VRD-ST2EE100J	10 ohm	
R112	VRD-ST2EE122J	1.2K ohm	
R113, 114	VRD-ST2EE101J	100 ohm	
R115	VRD-ST2EE151J	150 ohm	
R116, 117	VRD-ST2EE103J	10K ohm	
R118	VRD-ST2EE152J	1.5K ohm	
R119	VRD-ST2EE561J	560 ohm	
R120	VRD-ST2EE474J	470K ohm	
R121	VRD-ST2EE470J	47 ohm	AA
R122	VRD-ST2EE331J	330 ohm	
R123	VRD-ST2EE154J	150K ohm	
R124	VRD-ST2EE473J	47K ohm	
R125	VRD-ST2EE331J	330 ohm	
R126	VRD-ST2EE222J	2.2K ohm	
R127	VRD-ST2EE103J	10K ohm	
R128	VRD-ST2EE563J	56K ohm	
R129	VRD-ST2EE103J	10K ohm	
R130	VRD-ST2EE154J	150K ohm	
R131	VRD-ST2EE562J	5.6K ohm	
R132	VRD-ST2EE333J	33K ohm	
R133	VRD-ST2EE103J	10K ohm	
R135	VRD-ST2EE104J	100K ohm	
R137	VRG-ST2EC470J	47 ohm, ¼W, ±5%, Fusible	AB
R138	VRD-ST2EE332J	3.3K ohm	AA
R139	VRD-ST2EE562J	5.6K ohm	AA
R140	VRG-ST2EC271J	270 ohm, ¼W, ±5%, Fusible	AB
R141, 142	VRD-ST2EE332J	3.3K ohm	
R143, 144	VRD-ST2EE153J	15K ohm	
R145, 146	VRD-ST2EE562J	5.6K ohm	
R147	VRD-ST2EE391J	390 ohm	
R148	VRD-ST2EE682J	6.8K ohm	
R149	VRD-ST2EE103J	10K ohm	
R150	VRD-ST2EE822J	8.2K ohm	
R151	VRD-ST2EE332J	3.3K ohm	
R152	VRD-ST2EE122J	1.2K ohm	
R153	VRD-ST2EE562J	5.6K ohm	
R154	VRD-ST2EE102J	1K ohm	
R156	VRD-ST2EE223J	22K ohm	
R157	VRD-ST2EE103J	10K ohm	
R158	VRD-ST2EE101J	100 ohm	
R159	VRD-ST2EE821J	820 ohm	
R160	VRD-ST2EE101J	100 ohm	
R161	VRD-ST2EE473J	47K ohm	AA
R162	VRD-ST2EE103J	10K ohm	
R163	VRD-ST2EE101J	100 ohm	
R164	VRD-ST2EE471J	470 ohm	
R165	VRD-ST2EE472J	4.7K ohm	
R166	VRD-ST2EE223J	22K ohm	
R167	VRD-ST2EE332J	3.3K ohm	
R169	VRD-ST2EE473J	47K ohm	
R170	VRD-ST2EE104J	100K ohm	
R171	VRD-ST2EE474J	470K ohm	
R172	VRD-ST2EE221J	220 ohm	
R173	VRD-ST2EE561J	560 ohm	
R174	VRD-ST2EE102J	1K ohm	
R175	VRD-SU2EE683J	68K ohm	
R201, 202	VRD-ST2EE473J	47K ohm	
R203, 204	VRD-ST2EE680J	68 ohm	
R205, 206	VRD-ST2EE563J	56K ohm	
R209, 210	VRD-ST2EE103J	10K ohm	
R211, 212	VRD-ST2EE154J	150K ohm	
R213	VRD-ST2EE475J	4.7M ohm	
R214	VRD-ST2EE473J	47K ohm	
R215, 216	VRD-ST2EE681J	680 ohm	
R217, 218	VRD-ST2EE182J	1.8K ohm	
R219, 220, R221, 222	VRD-ST2EE103J	10K ohm	
R223, 224	VRD-ST2EE333J	33K ohm	AA
R225, 226	VRD-ST2EE390J	39 ohm	
R227, 228	VRD-ST2EE122J	1.2K ohm	
R229	VRD-ST2EE101J	100 ohm	
R230	VRD-ST2EE1R0J	1 ohm	
R231	VRD-ST2EE181J	180 ohm	
R232	VRG-ST2EC470J	47 ohm, ¼W, ±5%, Fusible	AB
R233, 234	VRD-ST2EE183J	18K ohm	
R235, 236	VRD-ST2EE273J	27K ohm	AA
R237, 238	VRD-ST2EE103J	10K ohm	
R239	VRG-ST2EC221J	220 ohm, ¼W, ±5%, Fusible	AB
R240	VRD-ST2EE182J	1.8K ohm	
R301, 302	VRD-ST2EE105J	1M ohm	
R303, 304	VRD-ST2EE103J	10K ohm	
R305, 306	VRD-ST2EE561J	560 ohm	
R307, 308	VRD-ST2EE104J	100K ohm	
R309, 310	VRD-ST2EE122J	1.2K ohm	
R311, 312	VRD-ST2EE103J	10K ohm	
R315, 316	VRD-ST2EE105J	1M ohm	
R317, 318	VRD-ST2EE103J	10K ohm	
R319, 320	VRD-ST2EE391J	390 ohm	
R321, 322	VRD-ST2EE273J	27K ohm	
R323, 324	VRD-ST2EE332J	3.3K ohm	
R325, 326	VRD-ST2EE224J	220K ohm	
R327, 328	VRD-ST2EE472J	4.7K ohm	
R329	VRD-ST2EE152J	1.5K ohm	AA
R330	VRD-ST2EE102J	1K ohm	
R331, 332	VRD-ST2EE105J	1M ohm	
R333, 334	VRD-ST2EE473J	47K ohm	
R335, 336	VRD-ST2EE103J	10K ohm	
R337, 338	VRD-ST2HD271J	270 ohm, ½W, ±5%, Carbon	
R339	VRD-ST2EE182J	1.8K ohm	
R401, 402	VRD-ST2EE102J	1K ohm	
R403, 404	VRD-ST2EE333J	33K ohm	
R405, 406	VRD-ST2EE394J	390K ohm	
R407, 408	VRD-ST2EE224J	220K ohm	
R409, 410	VRD-ST2EE121J	120 ohm	
R411, 412	VRD-ST2EE123J	12K ohm	
R413, 414	VRD-ST2EE4R7J	4.7 ohm	
R415	VRD-ST2EE104J	100K ohm	
R416	VRG-ST2EC101J	100 ohm, ¼W, ±5%, Fusible	AB
R417	VRG-ST2HD1R8J	1.8 ohm, ½W, ±5%, Fusible	AB
R418	VRD-ST2EE222J	2.2K ohm	AA

MECHANICAL PARTS

001	JKNBR0186AFSA	Keys, Rewind/Fast-forward/ Play/Stop Eject/Pause/ Record (SG-180H)	AC
	JKNBR0186AFSB	Keys, Rewind/Fast-forward/ Play/Stop Eject/Pause/ Record (SG-180HB)	
002	LANGK0238AFFW	Bracket, Mechanism Control Key	AC
003	LANGT0929AFFW	Bracket, Motor Retaining	AE
004	LCHSM0332AFZZ	Main-chassis Assembly	
005	LCHSS0152AFFW	Sub-chassis	
006	LDAIH0054AFZZ	Block, Head Mounting	AB
007	LHLDW3061AFZZ	Wire Holder	AA
008	LSTWC3002AFZZ	Stop Ring	
009	LX-BZ0107AGZZ	Screw, Thrust Adjustment	
010	LX-WZ5037AGZZ	Washer, Flywheel	
011	MLEVF1035AFZZ	Lever, Mechanism Control Lever Lock	AE

REF. NO.	PART NO.	DESCRIPTION	CODE
012	MLEVP0177AFZZ	Lever, Play	
013	MLEVP0178AFZZ	Lever, Fast-forward	AC
014	MLEVP0179AFZZ	Lever, Rewind	
015	MLEVP0180AFZZ	Lever, Stop/Eject	AB
016	MLEVP0181AFZZ	Lever, Record	AC
017	MLEVP0182AFZZ	Lever, Pause	AB
018	MLEVP0183AFZZ	Lever, Pause Lever Lock	AA
019	MLEVP0184AFZZ	Lever, Erase Prevention	
020	MLEVP0185AFZZ	Lever, Tape Contact	AB
021	MLEVP0186AFZZ	Lever, Eject	
022	MSPRC0209AFFJ	Spring, Head Azimuth Adjustment	
023	MSPRD0264AFFJ	Spring, Pause Lever Lock	AA
024	MSPRD0269AFFJ	Spring, Automatically Return	
025	MSPRD0353AFFJ	Spring, Pinch Roller Lever	
026	MSPRP0236AFFW	Spring, Sub-chassis Retaining	AC
027	MSPRT0643AFFJ	Spring, Erase Prevention Lever	
028	MSPRT0644AFFJ	Spring, Mechanism Control Lever Lock Lever	AA
029	MSPRT0654AFFJ	Spring, Fast-forward/Record Lever	
030	MSPRT0655AFFJ	Spring, Rewind Lever	
031	MSPRT0722AFFJ	Spring, Play Idler	AB
032	MSPRT0726AFFJ	Spring, Eject Lever	AC
033	MSPRT0799AFFJ	Spring, Stop/Eject Lever	AA
034	MSPRT0642AFFJ	Spring, Sub-chassis Return	
035	NBLTK0158AFZZ	Belt, Mechanism Drive	AC
036	NDAIR0142AFSA	Turntable, Take-up/Supply	AC
037	NFLYC0083AFZZ	Flywheel Assembly	AK
038	NIDR-0070AFZZ	Play Idler Assembly	AH
039	NROLV0013AFZZ	Fast-forward/Rewind Roller Assembly	AH
040	NROLV0014AFZZ	Gear, Fast-forward	AB
041	NROLY0034AFZZ	Pinch Roller Assembly	AE
042	NSFTT0141AFFD	Shaft, Mechanism Control Key	AC
043	PGIDM0080AFZZ	Bracket, Mechanism Control Lever Retaining	AC
044	RHEDA0085AFZZ	Head, Erase	AM
045	RHEDH0098AFZZ	Head, Record/Playback	AP
046	MLEVF1052AFFW	Lever, Record Prevention	
047	MSPRD0273AFFJ	Spring, Record Prevention Lever	

PLAYER PARTS

101	CDAI-1013AF01	Tonearm Base Assembly (SG-180H)	
	CDAI-1013AF02	Tonearm Base Assembly (SG-180HB)	
101-1	GDAI-1013AFSA	Tonearm Base (SG-180H)	
	GDAI-1013AFSB	Tonearm Base (SG-180HB)	
101-2	LHLDZ9060AFSB	Holder, Rest Stand (SG-180H)	AB
	LHLDZ9060AFSC	Holder, Rest Stand (SG-180HB)	
101-3	MLIFP0007AFSB	Lifter, Toneam (SG-180H)	AD
	MLIFP0007AFSC	Lifter, Tonearm (SG-180HB)	AC
•101-4	MSPRC0215AFFJ	Spring, Tonearm Lifter	AA
102	JPU-P0051AFSA	Tonearm Assembly	AX
•	91ZCART-113	Cartridge	
	91ZHARICOV1500	Cover, Stylus	
	91ZSTY-113	Stylus	
103	LANGT1011AFZZ	Bracket, Motor	AH
104	LBSHS0001AG00	Cushion, Motor	AA
105	LX-BZ0293AFFD	Screw, Motor Retaining	AA
106	MARMM0062AFFW	Bracket, Tonearm	AD
107	MLEVF0843AFZZ	Lever, Cue Click	AC

REF. NO.	PART NO.	DESCRIPTION	CODE
108	MLEVP0119AFSA	Lever, Cuing/Pause Control (SG-180HB)	AD
	MLEVP0119AFSC	Lever, Cuing/Pause Control (SG-180H)	AQ
109	PCUSG0144AF00	Cushion, Tonearm Base	AC
110	QLUGL0203CEZZ	Terminal Strip, 2-Lug	AA
111	91Z700514-1	Bearing, Turntable	
112	91Z702279	Spindle, Turntable	
113	91Z870932-1	Guide, Operation Arm	
114	91Z870933-1	Arm, Operation	
115	91Z871641-4	Sub Chassis Assembly	
116	91Z894687	Lever, Operation	
117	91Z894901	Plate, Clutch	
118	91Z894902	Guide, Clutch Plate	
119	91Z895073	Pin, Eccentric	
120	91Z895248	Gear, Tonearm Return	
121	91Z895251	Spring, Operation Lever	
122	91ZE-271110	Stopper, Turntable Spindle	

CABINET PARTS

201	GCABA1606AFSA	Cabinet, Top (SG-180H)	
	GCABA1606AFSB	Cabinet, Top (SG-180HB)	
202	GFTAC1158AFSA	Cassette Compartment	
203	GFTAF1025AFSA	Door, Controls (SG-180H)	AH
	GFTAF1025AFSB	Door, Controls (SG-180HB)	AH
204	HDALP0466AFSA	Indication Plate, Dial (SG-180H)	AN
	HDALP0466AFSB	Indication Plate, Dial (SG-180HB)	
205	JKNBP0149AFSA	Knob, Turntable Speed Selector (SG-180H)	AA
	JKNBP0149AFSB	Knob, Turntable Speed Selector (SG-180HB)	
206	JKNBZ0217AFSA	Knob, Metal Tape Switch (SG-180H)	
	JKNBZ0217AFSB	Knob, Metal Tape Switch (SG-180HB)	
207	MARMP0011AFSA	Arm, Hinge (Left) (SG-180H)	AB
	MARMP0011AFSB	Arm, Hinge (Left) (SG-180HB)	
208	MARMP0012AFSA	Arm, Hinge (Right) (SG-180H)	
	MARMP0012AFSB	Arm, Hinge (Right) (SG-180HB)	
209	MSPRP0227AFFJ	Spring, Cassette Compartment	AA
210	MSPRT0760AFFJ	Spring, Hinge	
211	MSPRT0791AFFJ	Spring, Controls Door	AB
212	MSPRT0792AFFJ	Spring, Cassette Retaining	AA
213	MSPRT0806AFFJ	Spring, Controls Door	
214	PCUSG0151AF00	Cushion, Dust Cover	
215	PGUMS0103AF00	Cushion, Controls Door	AA
216	GCABB1580AFSA	Cabinet, Bottom	AX
217	LX-HZ0056AFFD	Screw, Record Lever Retaining	AA
218	MLEVP0276AFZZ	Lever, Record	AC
219	PSLDM7139AFZZ	Sheet, Shield	
220	PCUSG0150AF00	Cushion, Main P.W.B.	AA
221	CSPRT0003AG25	Dial Cord Assembly	
•	MSPRT-0003AGFW	Spring, Dial Cord	AA
222	GCOVA1253AFSA	Cover, Dust	AX
223	HSSND0280AF00	Pointer, Dial	AB
224	JKNBK0237AFSA	Knob, Volume Control (SG-180H)	AD
	JKNBK0237AFSB	Knob, Volume Control (SG-180HB)	AD

REF. NO.	PART NO.	DESCRIPTION	CODE
225	JKNBK0238AFSA	Knob, Bass/Treble/Balance (SG-180H)	AB
	JKNBK0238AFSB	Knob, Bass/Treble/Balance (SG-180HB)	
226	JKNBN0503AFSA	Knob, Function Selector (SG-180H)	
	JKNBN0503AFSB	Knob, Function Selector (SG-180HB)	
227	JKNBP0149AFSA	Knob, Power Switch (SG-180H)	AA
	JKNBN0149AFSB	Knob, Power Switch (SG-180HB)	AA
228	JKNBZ0215AFSA	Knob, Tuning Control (SG-180H)	
	JKNBZ0215AFSB	Knob, Tuning Control (SG-180HB)	
229	KCOUB0112AFZZ	Tape, Counter	AK
230	LANGF0638AFZZ	Bracket, Volume Control	AC
231	LANGT1012AFZZ	Bracket, Heat Sink	AB
232	LANGZ0087AFZZ	Bracket, Dial	AH
233	LHLDW1088AFZZ	Holder, LED Leads	AA
234	LHLDZ1140AFSA	Holder, LED	AC
235	LHLDZ1155AFZZ	Holder, Record Lever Spring	
236	LX-HZ0076AFZZ	Screw, Player Retaining	AA
237	MLEVF1219AFZZ	Lever, Power Switch	AE
238	MSPRT0761AFFJ	Spring, Record Lever	AC
239	NBLTH0072AF00	Belt, Turntable	AG
240	NBLTK0199AFZZ	Belt, Tape Counter	AC
241	NDRM-0157AFZZ	Drum	
242	NPLYD0052AFZZ	Pulley, Dial Cord (Small, High)	AB
243	NPLYD0054AFZZ	Pulley, Dial Cord (Large)	
244	NPLYD0056AFZZ	Pulley, Dial Cord (Small, Low)	
245	NTNT-0055AFSB	Platter, Turntable (SG-180H)	AP
	NTNT-0055AFSC	Platter, Turntable (SG-180HB)	AP
246	PCOVZ9062AF00	Felt, Capacitors Cover	AB
247	PRDAR0248AFZZ	Heat Sink	AQ
248	PSHEG0057AF00	Mat, Turntable	
249	PSLDM3188AFZZ	Shield Plate, Variable Capacitor	AC
250	PSLDM3207AFZZ	Shield Plate, Tuner P.W.B.	AB
251	PSLDM3223AFZZ	Shield Plate, Variable Capacitor	AB
252	TLABZ0130AFZZ	Mirror, Cassette Compartment	AA
253	LX-WZ3017CEFN	Washer, Dial Bracket	AA

MISCELLANEOUS

	LHLDW1075AFZZ	Nylon Band	AA
	LHLDW3056AFZZ	Holder, Wire	AA
	PSHEZ0107AFZZ	Sheet, Cassette Compartment Door	AB
	PSTPK0005AGZZ	Stopper, Coil	
⚠	QACCL0052AFZZ	AC Supply Cord (Refer to Figure 26)	AP
⚠	QACCV0001AGZZ	AC Supply Cord (Refer to Figure 26)	AL
⚠	QACCZ0002TA0F	AC Supply Cord (Refer to Figure 26)	AG
⚠	QACCZ0053AF00	AC Supply Cord (Refer to Figure 26)	AK
CNP201	QCNCM432HAFZZ	Plug, 8-Pin	AB
CNP202	QCNCM438EAFZZ	Plug, 5-Pin	AB
CNS201	QCNW-1152AFZZ	Jumper Connector, 8-Pin	AK
CNS202	QCNCW321EAFZZ	Socket, 5-Pin	AA
⚠F401	QFS-C122CAGNI	Fuse, T1.25A/250V	AE
⚠F402	QFS-C322CAGNI	Fuse, T3.15A/250V	AE
⚠	QFSHD2051AFZZ	Holder, Fuse	AA
	QHWS-3001AGFN	Lug	AA

REF. NO.	PART NO.	DESCRIPTION	CODE
J301, 302	QJAKE0084AFZZ	Jack, Microphone	AD
J303	QJAKJ0080AFZZ	Jack, Headphones	AG
	QLUGP0111CEFW	Lug, Terminal	AA
⚠	QLUGP0165AFZZ	Lug, Terminal	AA
SO101	QSOCD2487AFZZ	Socket, FM and LW/MW External Antenna	AF
SO401	QSOCD2496AFZZ	Sockets, Speaker Output	AF
⚠SO501	QSOCE0558AFZZ	Socket, Mains Voltage Selector	AG
	QSOCT2151AFZZ	Socket, Transistor	AB
SW101(A~J)	QSW-S0323AFZZ	Switch, Function Selector	AP
SW201(A~L)	QSW-S0228AFZZ	Switch, Record/Playback	AH
SW202(A~D)	QSW-P0313AFZZ	Switch, Metal Tape	AG
SW401	QSW-S0191AFZZ	Switch, Beat Canceller	AD
⚠SW402	QSW-P9132AFZZ	Switch, Power	AG
SW601	91Z891340	Switch, Phono-Motor	
SW602	QSW-P0328AFZZ	Switch, Turntable Speed Selector	AE
SW701	QSW-F0136AFZZ	Switch, Tape Motor	AD
⚠M601	RMOTV0103AFZZ	Phono Motor Assembly (with motor P.W.B)	AY
⚠M701	RMOTV0084AFZZ	Tape Motor	AV
	PEPAP0001SGSA	Spindle Adaptor for 45 r.p.m. Records	AC
	PSHEZ0107AFZZ	Sheet, Cassette Compartment Door	
	QANTW0058AFZZ	FM Dipole Antenna	
	SPAKA0763AFZZ	Packing Add, Left	AK
	SPAKA0764AFZZ	Packing Add, Right	
	SPAKC1770AFZZ	Packing Case (SG-180H)	AN
	SPAKC1772AFZZ	Packing Case (SG-180HB)	
	SPAKF0002AGZZ	Sheet, AC Supply Cord	
	SPAKP0173AFZZ	Wrapping Paper, Packing Add.	
	SPAKX0335AFZZ	Packing Add., Turntable	AB
	SPAKX0409AFZZ	Packing Add., Turntable Mat	AD
	SPAKX0430AFZZ	Spacer, Dust Cover	AA
	SPAKX0492AFZZ	Sheet, Dust Cover	
	SSAKA0007SEZZ	Polyethylene Bag, Operation Manual Assembly	AA
	SSAKA0101AFZZ	Polyethylene Bag, AC Supply Cord	
	TCADZ0085AFZZ	Display Sheet, Turntable	
	TCAUS0076AFZZ	Caution Card	AB
	TINSZ0300AFZZ	Operation Manual	
	TLABS0108AFZZ	Label, FTZ Caution	
	TLSTS0001ZZR0	Service Station List for Australia	
	TMAPC0795AFZZ	Schematic Diagram	
	TSPC-0746AFZZ	Label, Specification (SG-180H)	AB
	TSPC-0748AFZZ	Label, Specification (SG-180HB)	
	TTAGH0192AFZZ	Tag for four Countries	

P.W.B. ASSEMBLY (Not Replacement Item)

	SG-180H		
	DUNTL0138AF03 (Combined Assembly)	Main/Power/LED/Ext. Antenna Terminal	–

CONNECTION OF AC SUPPLY CORDS

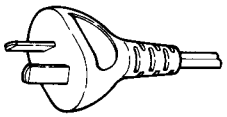
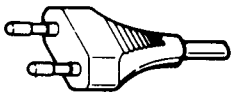
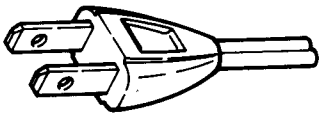
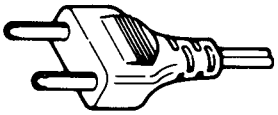
AC supply cord	Connection		Figure
	K416	K415	
QACCL0052AFZZ	Black	Black	
QACCV0001AGZZ	Blue	Brown	
QACCZ0002TA0F	Brown	Brown	
QACCZ0053AF00	Black	Black	

Figure 26

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